

Pantheon Report

Generated at 2018-02-17 07:30:13 (UTC).

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

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.

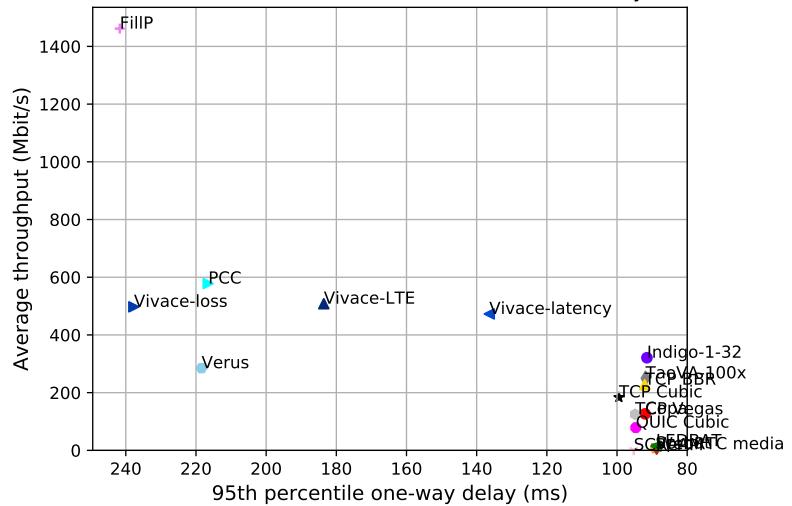
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

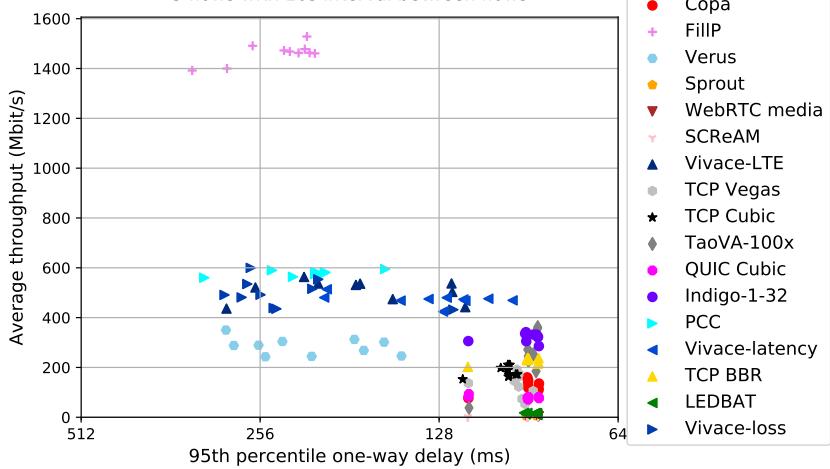
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
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 @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
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 @ f1a14bf7e749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efef6e088d91066a9f023df375eee2665089ce
  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 Iowa Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



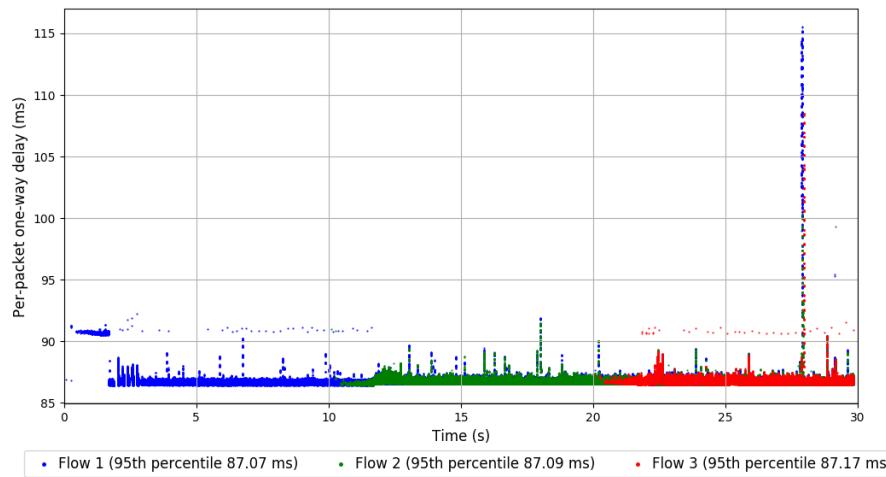
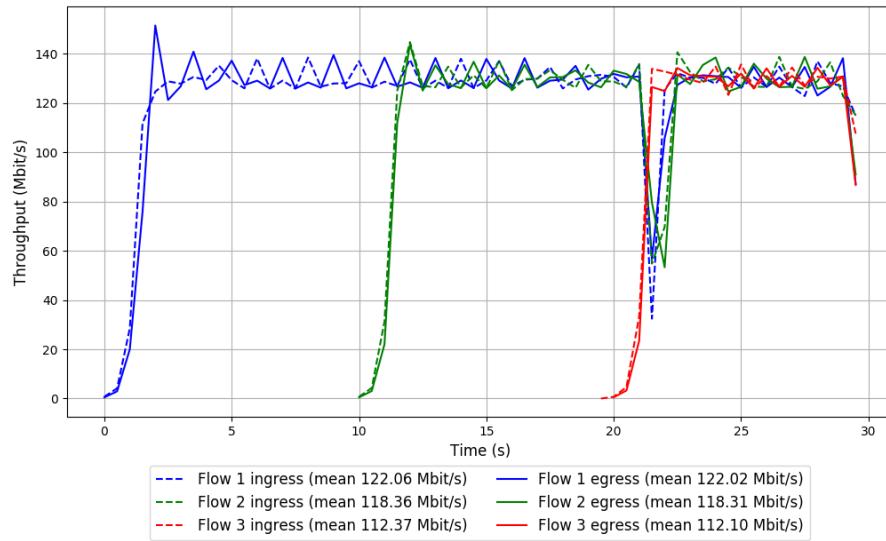
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	115.53	115.77	107.55	91.78	92.14	92.11	0.65	1.01	2.16
TCP Cubic		93.22	106.98	59.72	98.98	97.38	97.06	0.68	0.90	3.54
LEDBAT		9.77	5.89	3.28	89.00	88.52	88.31	1.33	1.75	3.84
PCC		530.07	59.01	27.48	218.81	191.59	187.12	3.06	1.98	2.95
QUIC Cubic		47.25	37.38	19.61	89.56	92.28	87.58	0.70	1.42	2.17
SCReAM		0.22	0.22	0.21	89.81	88.61	93.23	0.59	0.91	1.61
WebRTC media		2.06	1.34	0.54	87.87	88.21	88.21	0.86	1.02	2.83
Sprout		3.66	3.24	2.23	91.69	88.91	91.10	0.81	1.29	2.83
TaoVA-100x		150.47	122.88	97.69	88.55	93.33	90.83	0.38	0.83	2.33
TCP Vegas		63.50	62.00	62.78	93.75	91.95	93.72	0.62	0.98	2.06
Verus		158.34	153.03	77.76	179.96	227.67	202.84	1.37	4.15	4.07
Copa		68.51	62.74	51.61	91.56	91.65	90.91	0.29	1.21	2.02
FillP		772.12	723.90	639.65	232.21	250.40	247.29	9.59	10.98	15.34
Indigo-1-32		177.80	156.98	122.01	91.38	91.86	91.24	0.56	0.93	2.20
Vivace-latency		298.01	198.73	132.59	149.25	109.38	112.98	1.03	0.90	2.82
Vivace-loss		293.34	227.75	163.79	243.59	205.36	165.82	3.53	3.48	3.23
Vivace-LTE		315.80	216.65	150.22	194.99	119.08	174.74	1.39	1.22	3.87

```
Run 1: Statistics of TCP BBR

Start at: 2018-02-16 23:01:37
End at: 2018-02-16 23:02:07

# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.30 Mbit/s
95th percentile per-packet one-way delay: 87.088 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 122.02 Mbit/s
95th percentile per-packet one-way delay: 87.067 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 118.31 Mbit/s
95th percentile per-packet one-way delay: 87.089 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 112.10 Mbit/s
95th percentile per-packet one-way delay: 87.172 ms
Loss rate: 1.99%
```

Run 1: Report of TCP BBR — Data Link



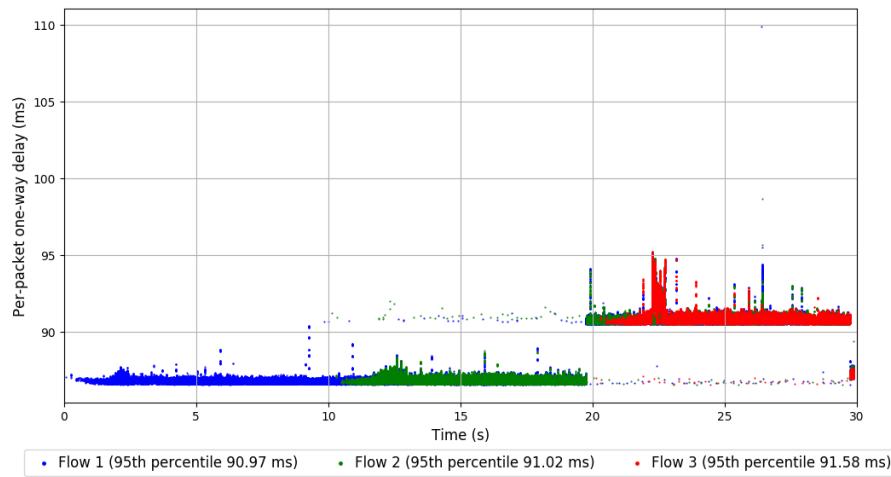
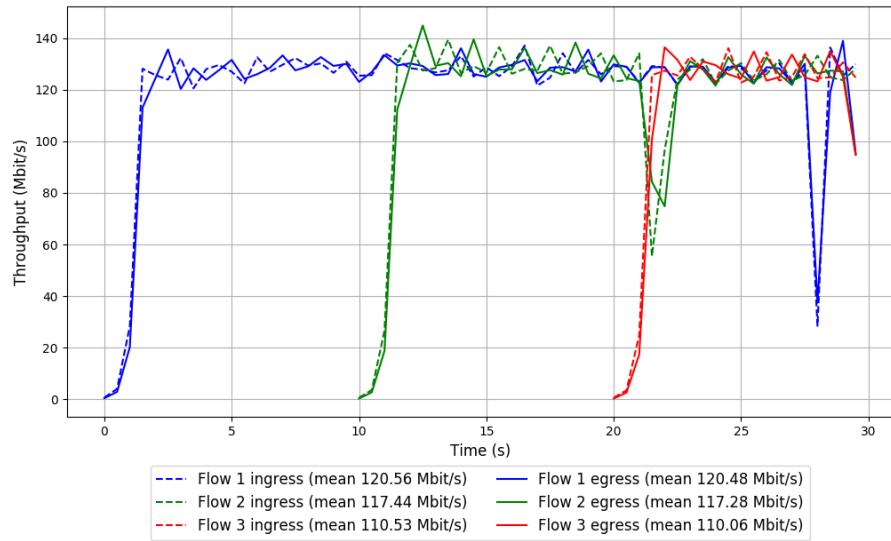
Run 2: Statistics of TCP BBR

Start at: 2018-02-16 23:20:29

End at: 2018-02-16 23:20:59

```
# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.15 Mbit/s
95th percentile per-packet one-way delay: 91.047 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 120.48 Mbit/s
95th percentile per-packet one-way delay: 90.973 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 117.28 Mbit/s
95th percentile per-packet one-way delay: 91.018 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 110.06 Mbit/s
95th percentile per-packet one-way delay: 91.575 ms
Loss rate: 2.43%
```

Run 2: Report of TCP BBR — Data Link



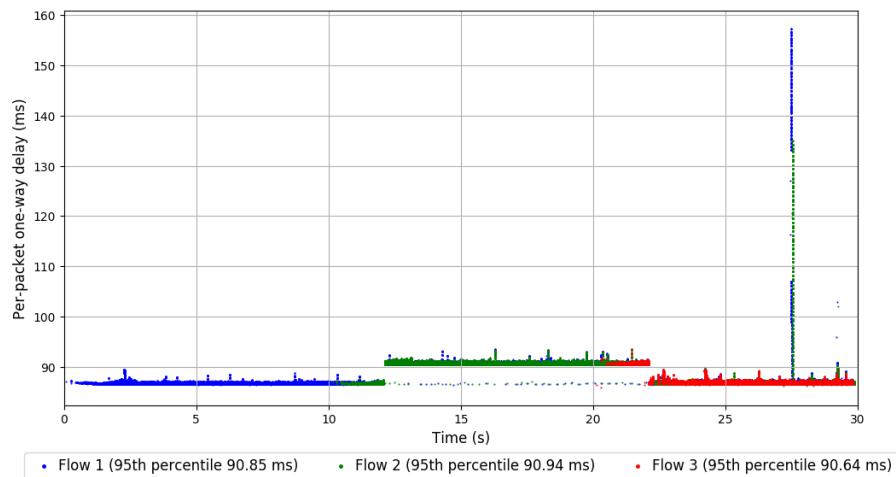
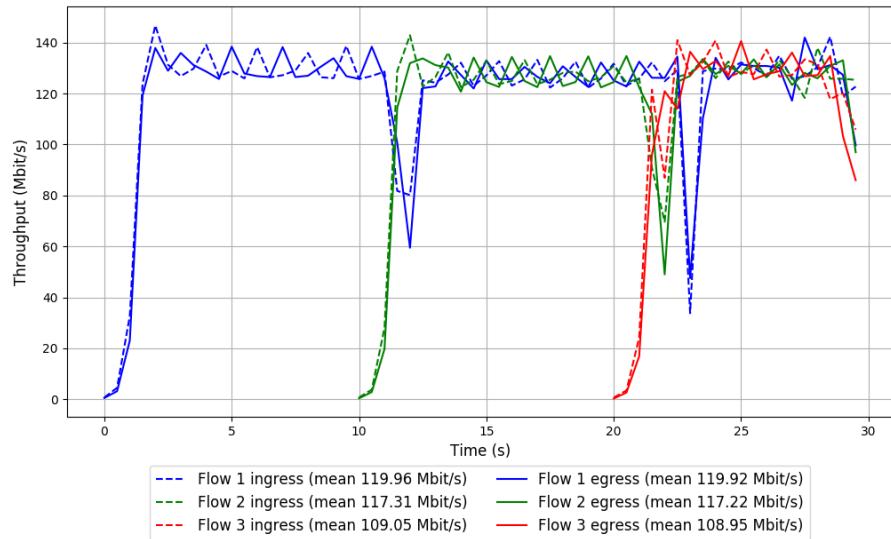
Run 3: Statistics of TCP BBR

Start at: 2018-02-16 23:39:47

End at: 2018-02-16 23:40:17

```
# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.09 Mbit/s
95th percentile per-packet one-way delay: 90.871 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 119.92 Mbit/s
95th percentile per-packet one-way delay: 90.852 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 117.22 Mbit/s
95th percentile per-packet one-way delay: 90.939 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 108.95 Mbit/s
95th percentile per-packet one-way delay: 90.637 ms
Loss rate: 2.21%
```

Run 3: Report of TCP BBR — Data Link



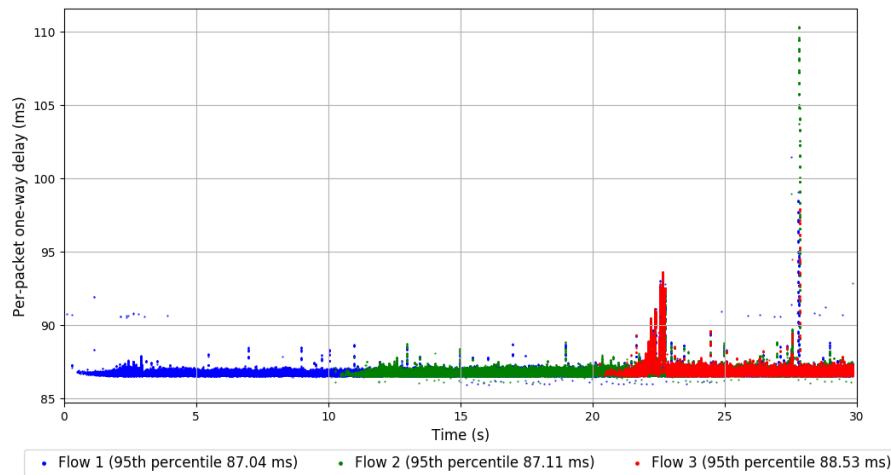
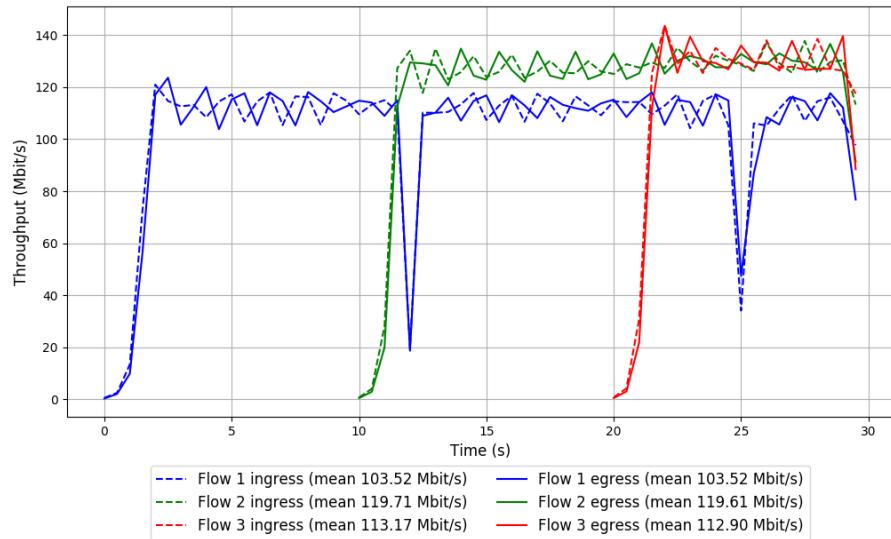
Run 4: Statistics of TCP BBR

Start at: 2018-02-16 23:58:54

End at: 2018-02-16 23:59:24

```
# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 219.87 Mbit/s
95th percentile per-packet one-way delay: 87.146 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 103.52 Mbit/s
95th percentile per-packet one-way delay: 87.041 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 119.61 Mbit/s
95th percentile per-packet one-way delay: 87.114 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 112.90 Mbit/s
95th percentile per-packet one-way delay: 88.533 ms
Loss rate: 1.99%
```

Run 4: Report of TCP BBR — Data Link



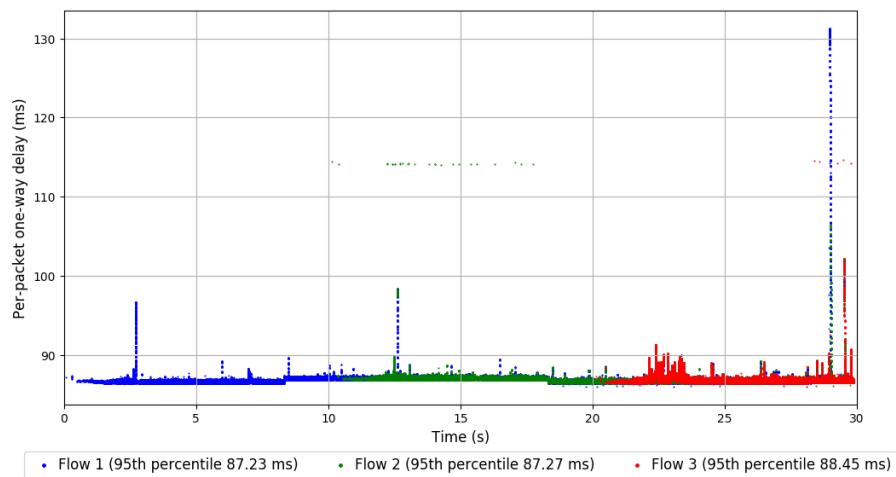
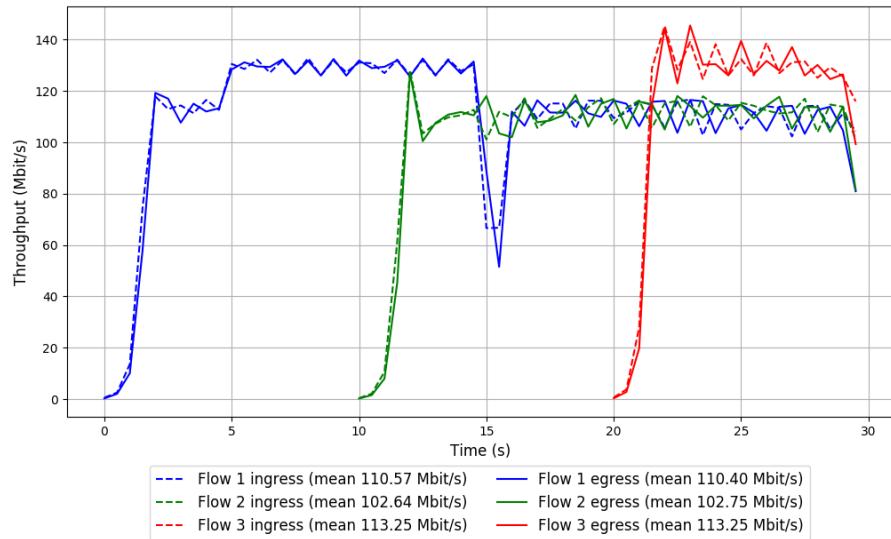
Run 5: Statistics of TCP BBR

Start at: 2018-02-17 00:18:01

End at: 2018-02-17 00:18:31

```
# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.34 Mbit/s
95th percentile per-packet one-way delay: 87.334 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 110.40 Mbit/s
95th percentile per-packet one-way delay: 87.233 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 102.75 Mbit/s
95th percentile per-packet one-way delay: 87.272 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 113.25 Mbit/s
95th percentile per-packet one-way delay: 88.454 ms
Loss rate: 1.76%
```

Run 5: Report of TCP BBR — Data Link



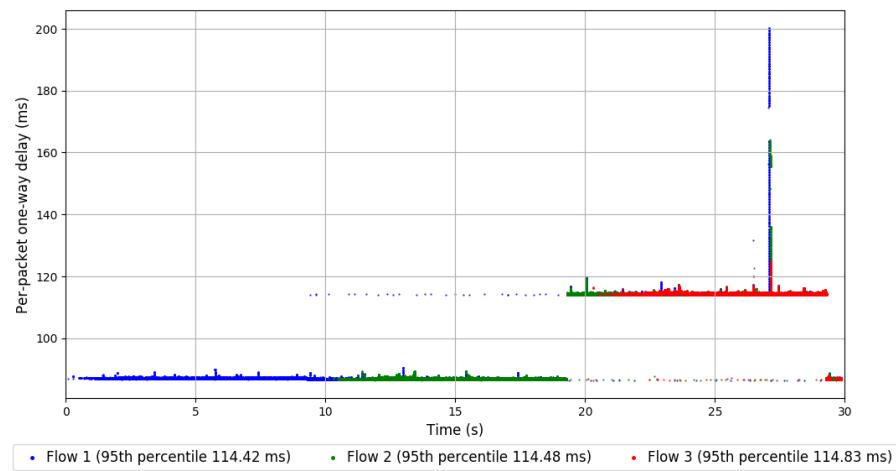
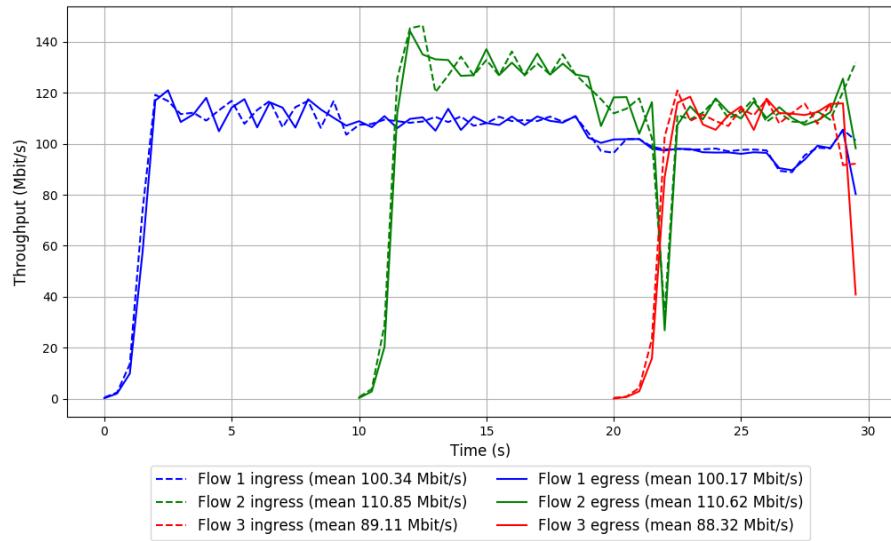
Run 6: Statistics of TCP BBR

Start at: 2018-02-17 00:37:30

End at: 2018-02-17 00:38:00

```
# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 202.43 Mbit/s
95th percentile per-packet one-way delay: 114.509 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 100.17 Mbit/s
95th percentile per-packet one-way delay: 114.415 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 110.62 Mbit/s
95th percentile per-packet one-way delay: 114.480 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 88.32 Mbit/s
95th percentile per-packet one-way delay: 114.830 ms
Loss rate: 2.90%
```

Run 6: Report of TCP BBR — Data Link



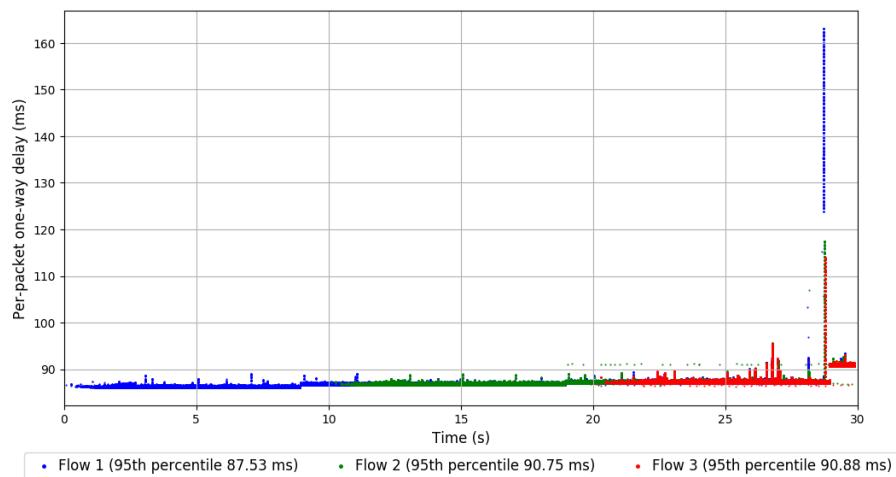
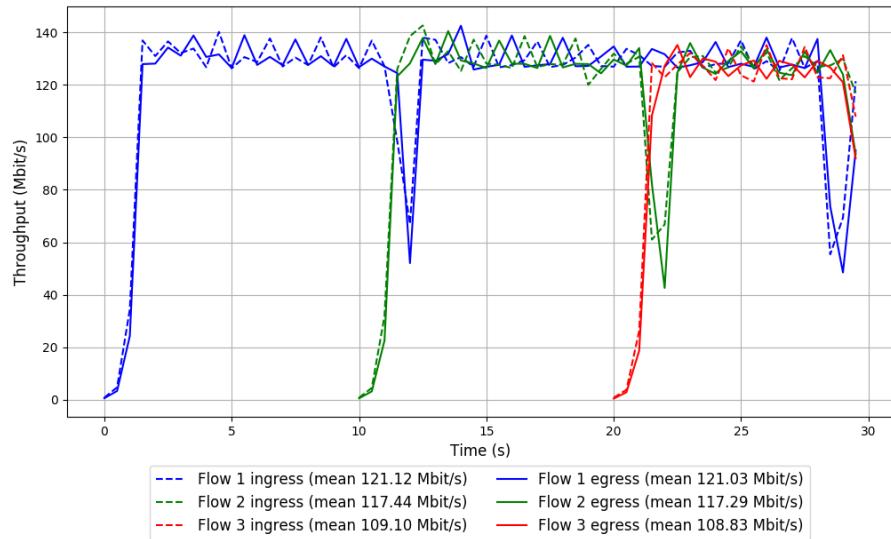
Run 7: Statistics of TCP BBR

Start at: 2018-02-17 00:56:30

End at: 2018-02-17 00:57:00

```
# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.59 Mbit/s
95th percentile per-packet one-way delay: 90.444 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 121.03 Mbit/s
95th percentile per-packet one-way delay: 87.530 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 117.29 Mbit/s
95th percentile per-packet one-way delay: 90.746 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 108.83 Mbit/s
95th percentile per-packet one-way delay: 90.883 ms
Loss rate: 1.99%
```

Run 7: Report of TCP BBR — Data Link



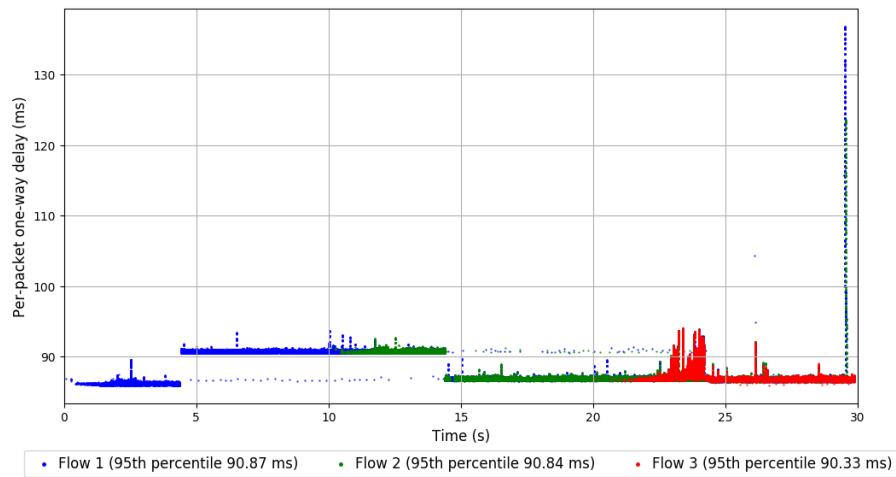
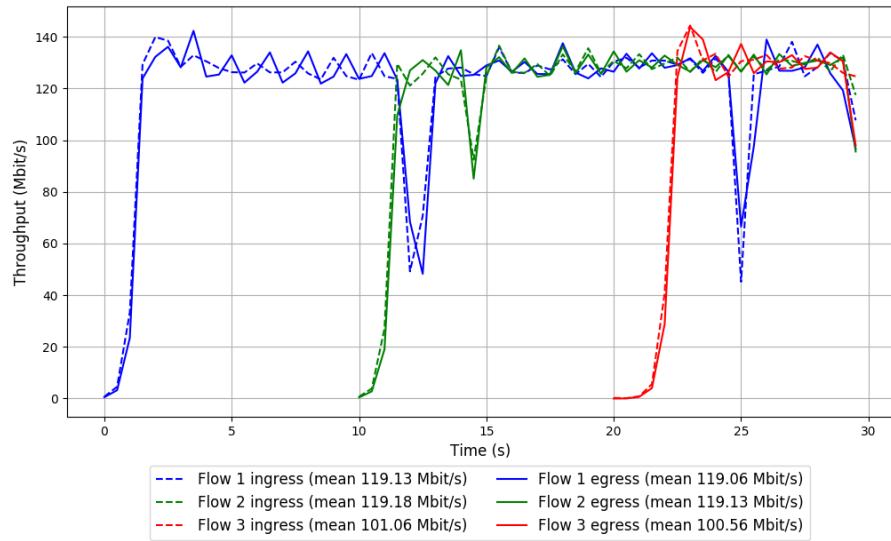
Run 8: Statistics of TCP BBR

Start at: 2018-02-17 01:15:25

End at: 2018-02-17 01:15:55

```
# Below is generated by plot.py at 2018-02-17 05:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.01 Mbit/s
95th percentile per-packet one-way delay: 90.855 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 119.06 Mbit/s
95th percentile per-packet one-way delay: 90.868 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 119.13 Mbit/s
95th percentile per-packet one-way delay: 90.839 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 100.56 Mbit/s
95th percentile per-packet one-way delay: 90.331 ms
Loss rate: 2.23%
```

Run 8: Report of TCP BBR — Data Link



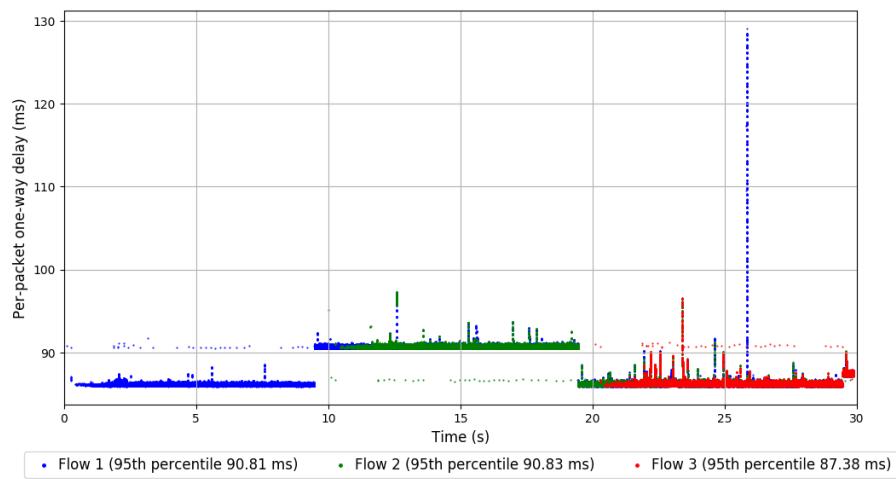
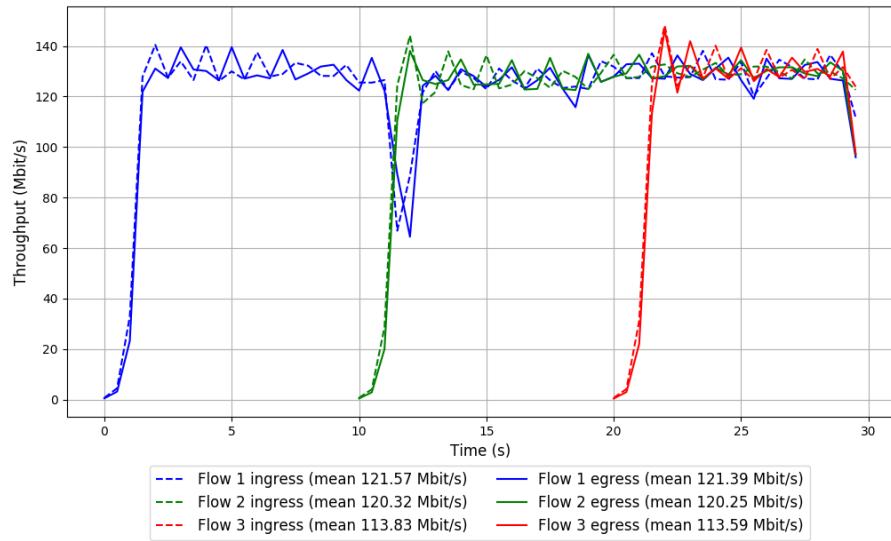
Run 9: Statistics of TCP BBR

Start at: 2018-02-17 01:34:10

End at: 2018-02-17 01:34:40

```
# Below is generated by plot.py at 2018-02-17 05:27:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 238.48 Mbit/s
95th percentile per-packet one-way delay: 90.798 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 121.39 Mbit/s
95th percentile per-packet one-way delay: 90.809 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 120.25 Mbit/s
95th percentile per-packet one-way delay: 90.826 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 113.59 Mbit/s
95th percentile per-packet one-way delay: 87.376 ms
Loss rate: 2.01%
```

Run 9: Report of TCP BBR — Data Link



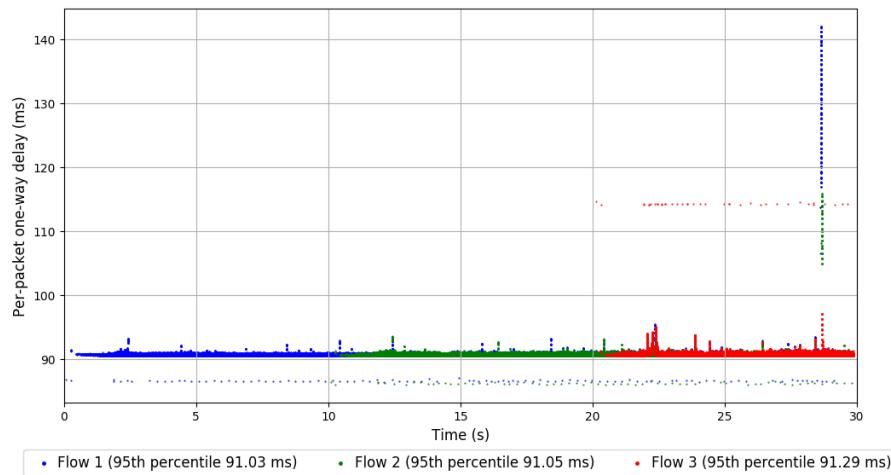
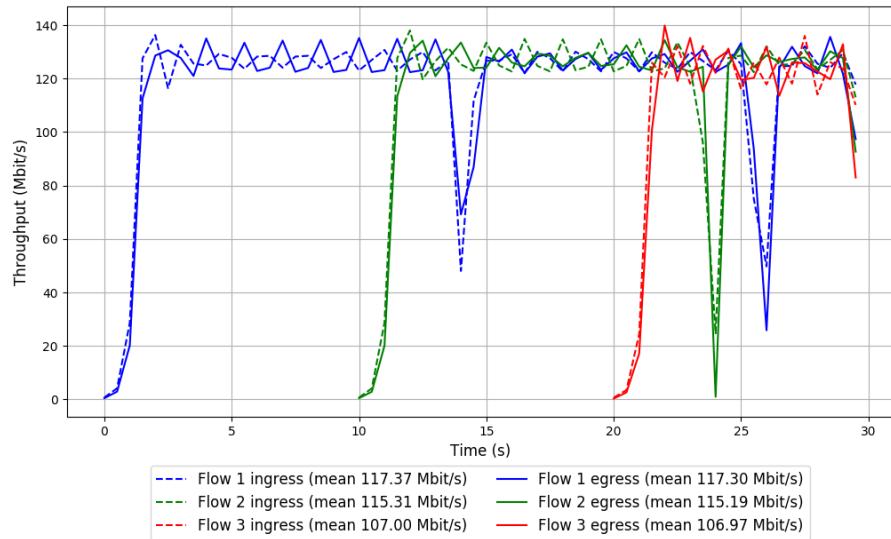
Run 10: Statistics of TCP BBR

Start at: 2018-02-17 01:52:57

End at: 2018-02-17 01:53:27

```
# Below is generated by plot.py at 2018-02-17 05:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.75 Mbit/s
95th percentile per-packet one-way delay: 91.067 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 117.30 Mbit/s
95th percentile per-packet one-way delay: 91.030 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 115.19 Mbit/s
95th percentile per-packet one-way delay: 91.052 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 106.97 Mbit/s
95th percentile per-packet one-way delay: 91.286 ms
Loss rate: 2.05%
```

Run 10: Report of TCP BBR — Data Link

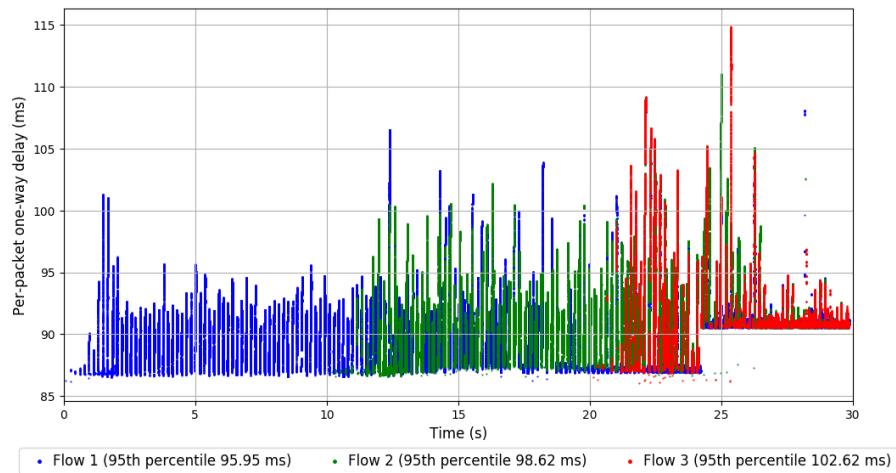
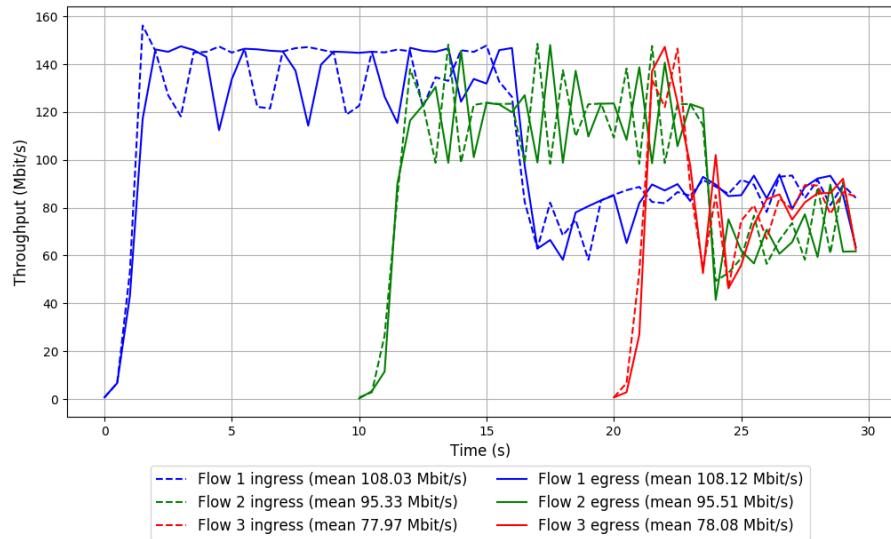


```
Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 23:06:35
End at: 2018-02-16 23:07:05

# Below is generated by plot.py at 2018-02-17 05:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 196.96 Mbit/s
95th percentile per-packet one-way delay: 98.255 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 108.12 Mbit/s
95th percentile per-packet one-way delay: 95.946 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 98.622 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 78.08 Mbit/s
95th percentile per-packet one-way delay: 102.617 ms
Loss rate: 2.01%
```

Run 1: Report of TCP Cubic — Data Link



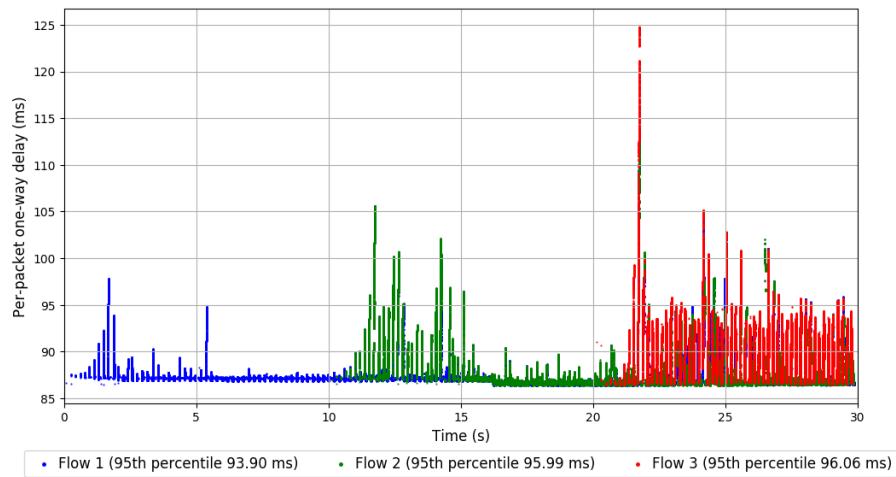
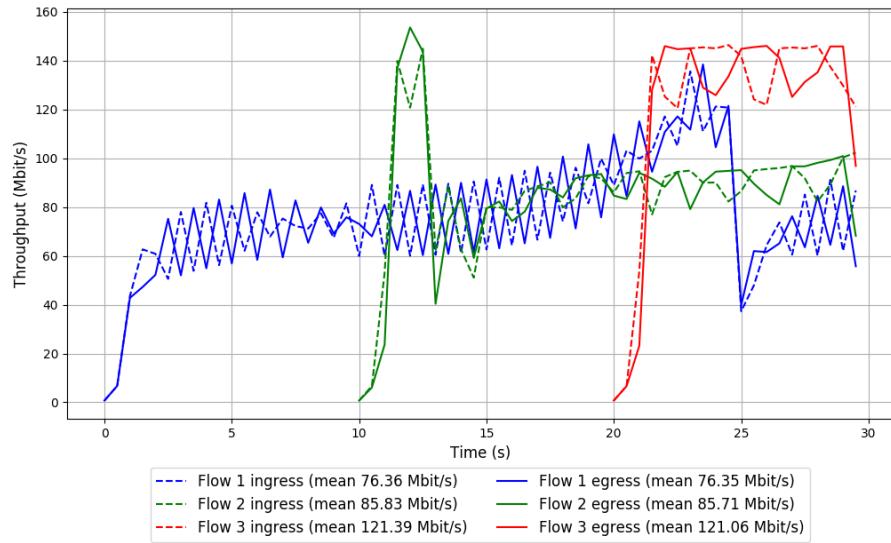
```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2018-02-16 23:25:43
```

```
End at: 2018-02-16 23:26:13
```

```
# Below is generated by plot.py at 2018-02-17 05:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.38 Mbit/s
95th percentile per-packet one-way delay: 95.122 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 93.898 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 95.986 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 121.06 Mbit/s
95th percentile per-packet one-way delay: 96.058 ms
Loss rate: 2.04%
```

Run 2: Report of TCP Cubic — Data Link

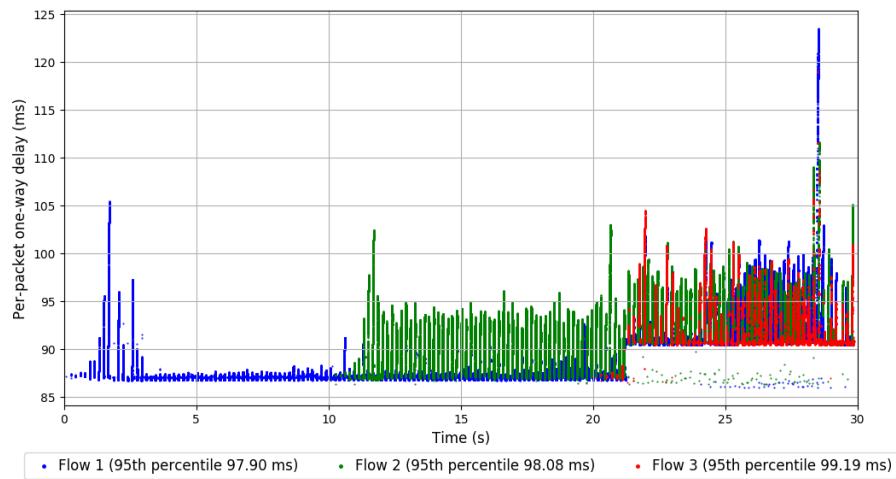
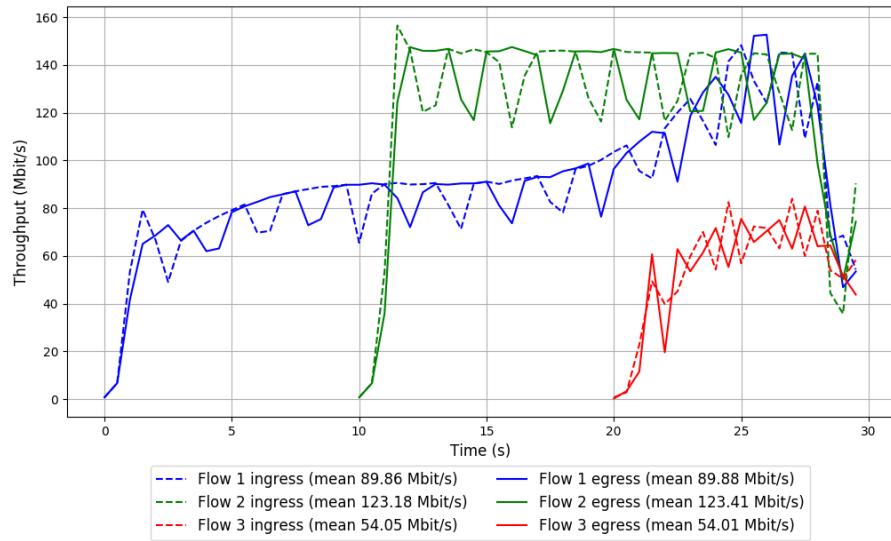


```
Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 23:44:48
End at: 2018-02-16 23:45:18

# Below is generated by plot.py at 2018-02-17 05:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.40 Mbit/s
95th percentile per-packet one-way delay: 98.103 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 97.901 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 123.41 Mbit/s
95th percentile per-packet one-way delay: 98.085 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 99.185 ms
Loss rate: 2.10%
```

Run 3: Report of TCP Cubic — Data Link



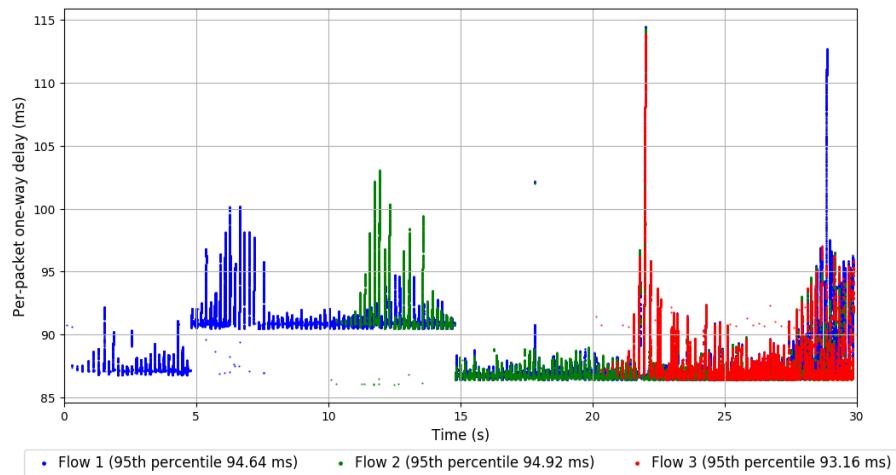
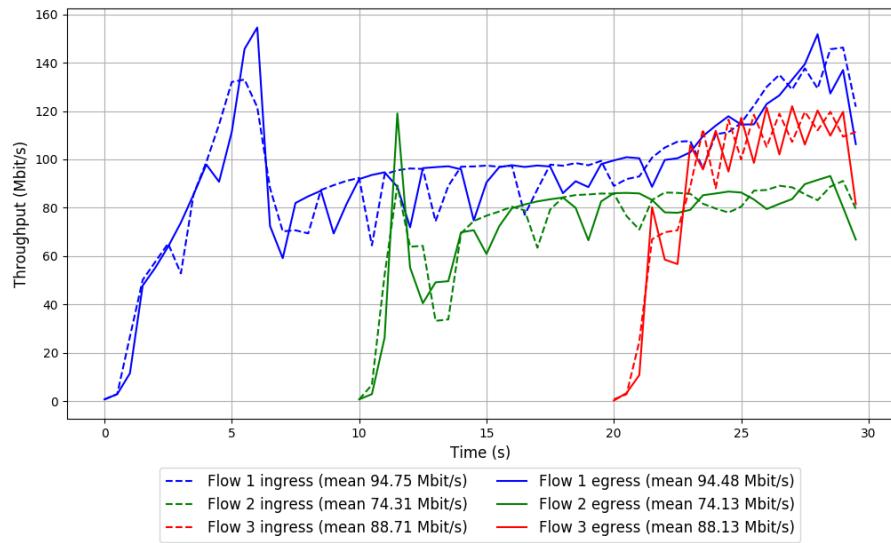
```
Run 4: Statistics of TCP Cubic
```

```
Start at: 2018-02-17 00:03:54
```

```
End at: 2018-02-17 00:04:24
```

```
# Below is generated by plot.py at 2018-02-17 05:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.43 Mbit/s
95th percentile per-packet one-way delay: 94.531 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 94.639 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 74.13 Mbit/s
95th percentile per-packet one-way delay: 94.922 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 93.157 ms
Loss rate: 2.63%
```

Run 4: Report of TCP Cubic — Data Link



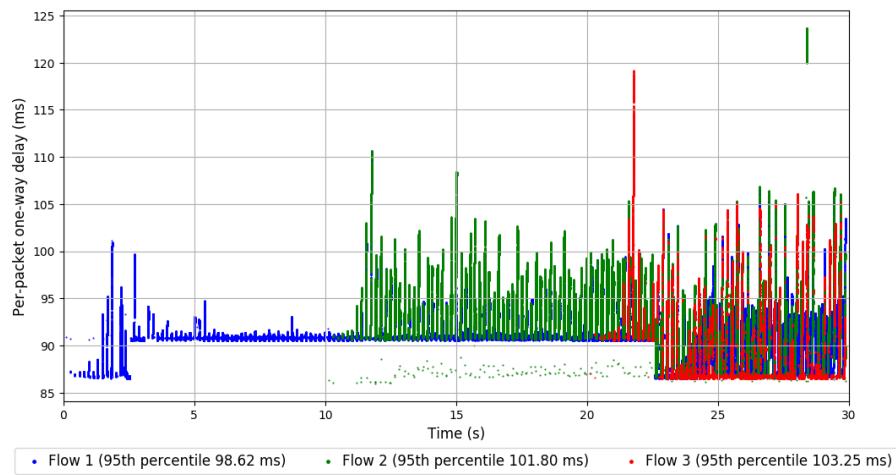
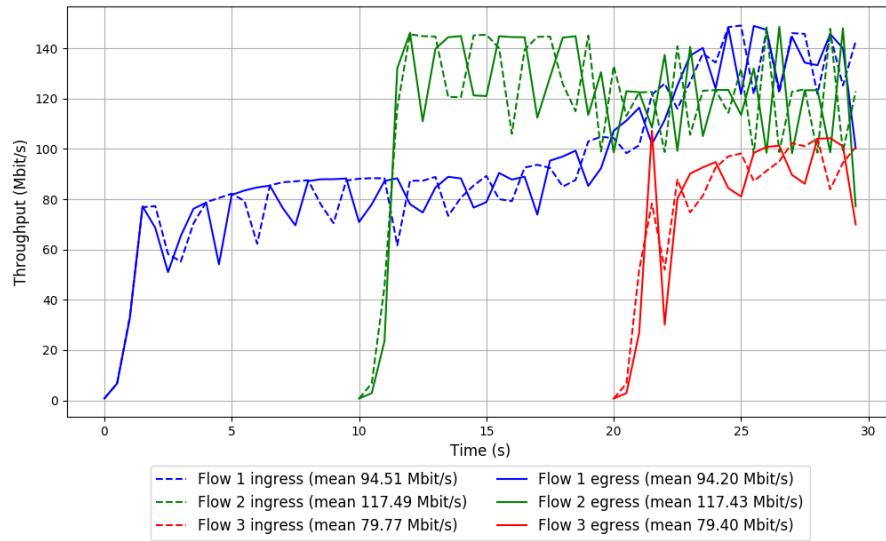
Run 5: Statistics of TCP Cubic

Start at: 2018-02-17 00:23:16

End at: 2018-02-17 00:23:46

```
# Below is generated by plot.py at 2018-02-17 05:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.03 Mbit/s
95th percentile per-packet one-way delay: 100.837 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 98.624 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 117.43 Mbit/s
95th percentile per-packet one-way delay: 101.800 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 103.250 ms
Loss rate: 2.21%
```

Run 5: Report of TCP Cubic — Data Link



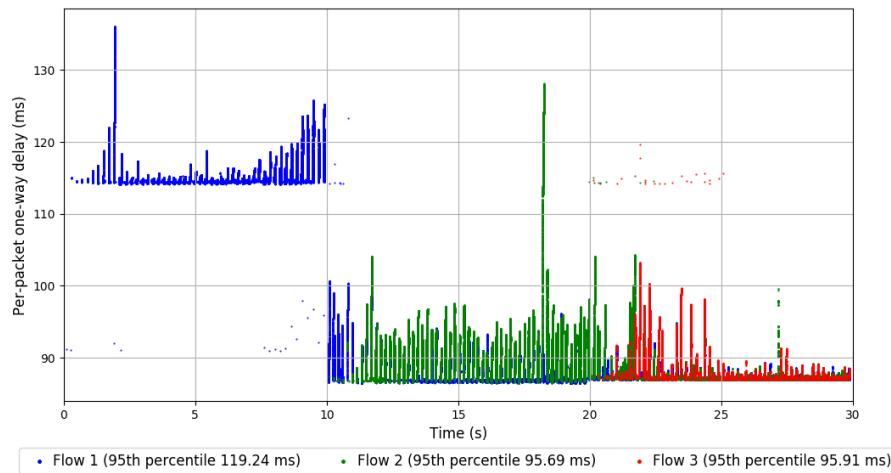
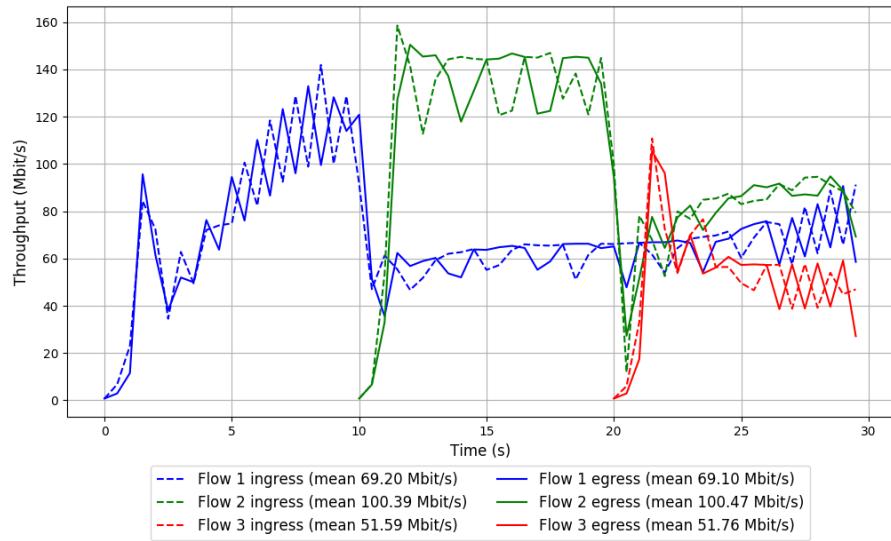
Run 6: Statistics of TCP Cubic

Start at: 2018-02-17 00:42:39

End at: 2018-02-17 00:43:09

```
# Below is generated by plot.py at 2018-02-17 05:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 152.74 Mbit/s
95th percentile per-packet one-way delay: 116.828 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 69.10 Mbit/s
95th percentile per-packet one-way delay: 119.240 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 100.47 Mbit/s
95th percentile per-packet one-way delay: 95.694 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 51.76 Mbit/s
95th percentile per-packet one-way delay: 95.913 ms
Loss rate: 1.97%
```

Run 6: Report of TCP Cubic — Data Link

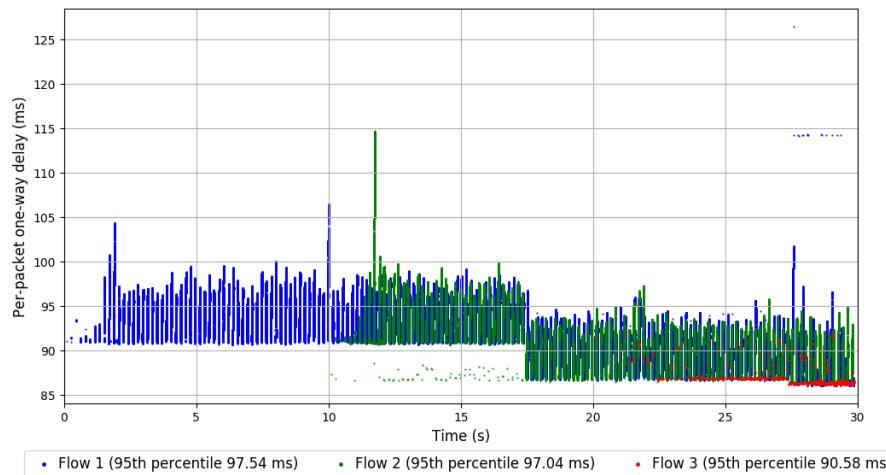
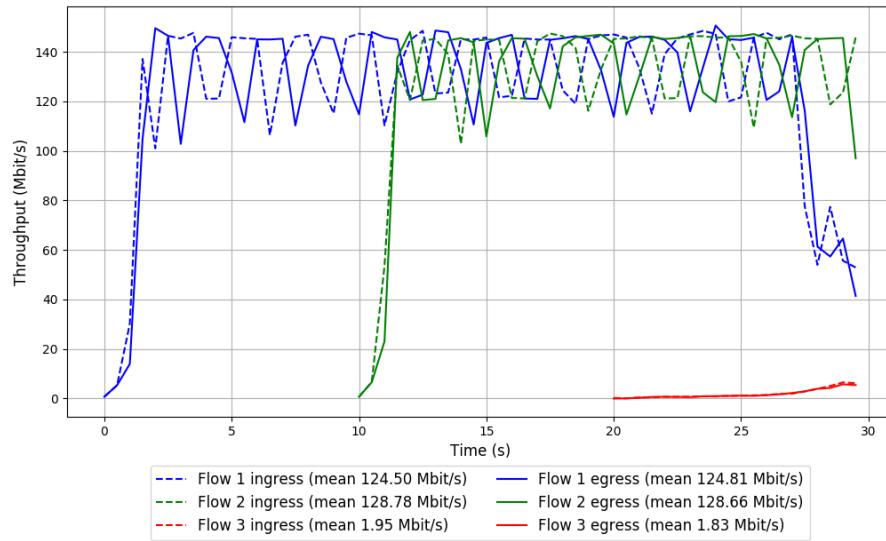


```
Run 7: Statistics of TCP Cubic

Start at: 2018-02-17 01:01:32
End at: 2018-02-17 01:02:02

# Below is generated by plot.py at 2018-02-17 05:30:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.52 Mbit/s
95th percentile per-packet one-way delay: 97.349 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 124.81 Mbit/s
95th percentile per-packet one-way delay: 97.539 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 128.66 Mbit/s
95th percentile per-packet one-way delay: 97.043 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 90.578 ms
Loss rate: 7.22%
```

Run 7: Report of TCP Cubic — Data Link



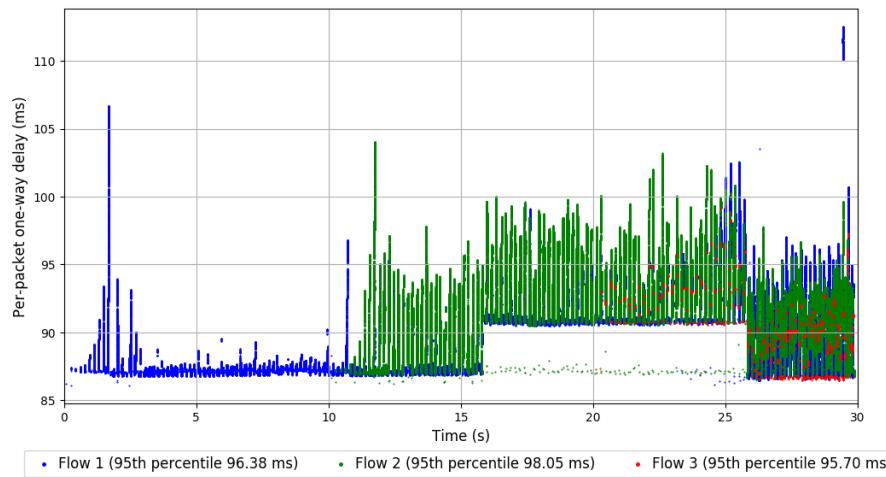
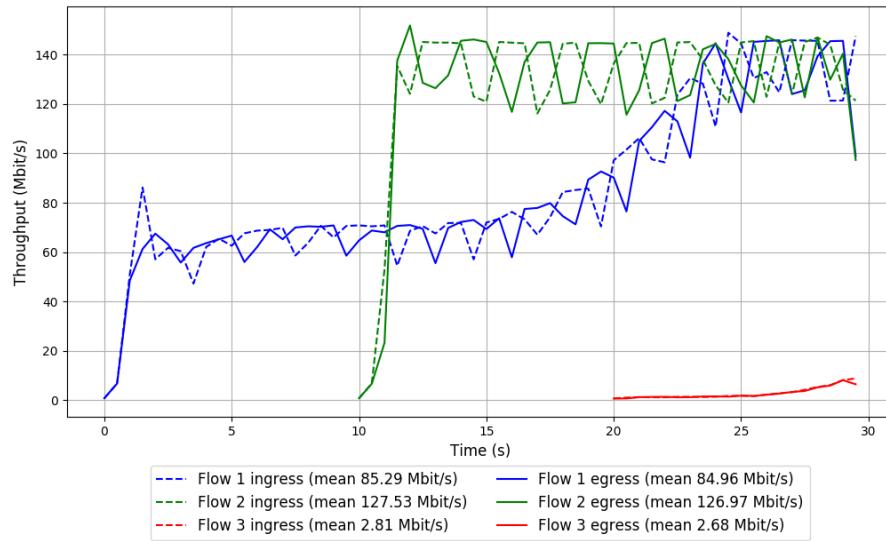
Run 8: Statistics of TCP Cubic

Start at: 2018-02-17 01:20:23

End at: 2018-02-17 01:20:53

```
# Below is generated by plot.py at 2018-02-17 05:30:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.02 Mbit/s
95th percentile per-packet one-way delay: 97.620 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 96.381 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 126.97 Mbit/s
95th percentile per-packet one-way delay: 98.046 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 95.700 ms
Loss rate: 6.43%
```

Run 8: Report of TCP Cubic — Data Link



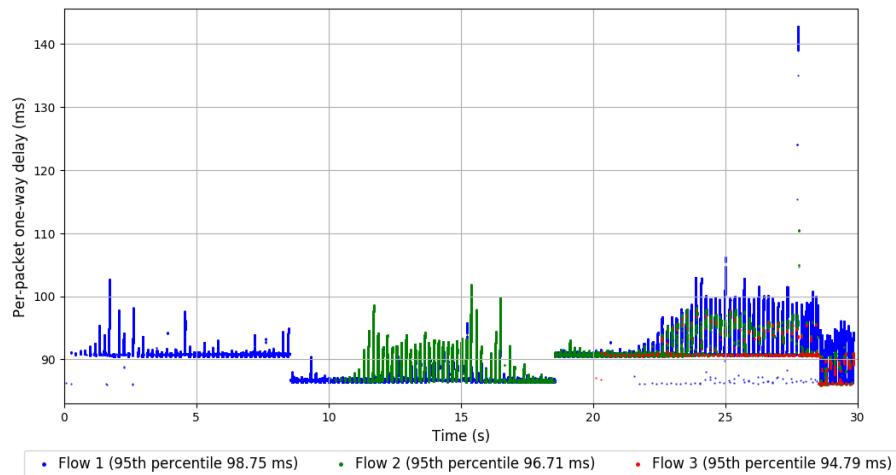
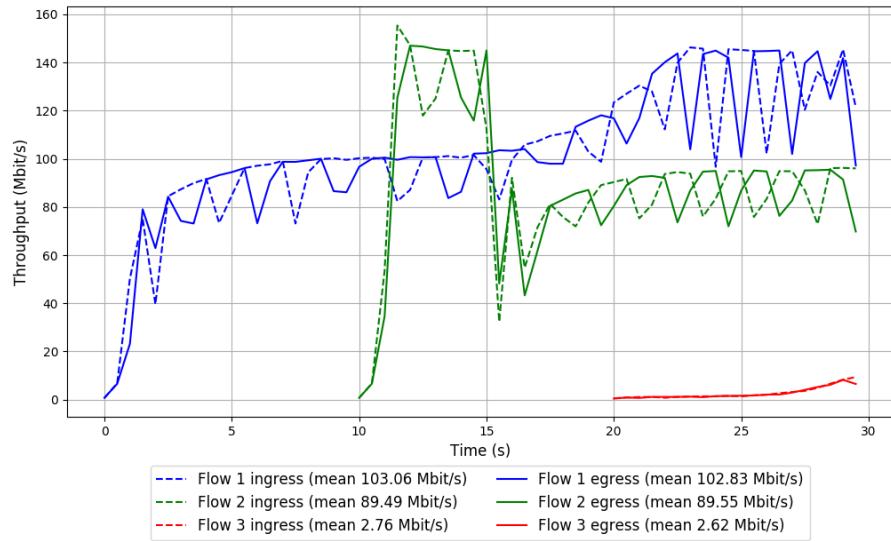
Run 9: Statistics of TCP Cubic

Start at: 2018-02-17 01:39:10

End at: 2018-02-17 01:39:40

```
# Below is generated by plot.py at 2018-02-17 05:30:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 163.05 Mbit/s
95th percentile per-packet one-way delay: 97.869 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 102.83 Mbit/s
95th percentile per-packet one-way delay: 98.750 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 89.55 Mbit/s
95th percentile per-packet one-way delay: 96.707 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 94.790 ms
Loss rate: 6.76%
```

Run 9: Report of TCP Cubic — Data Link



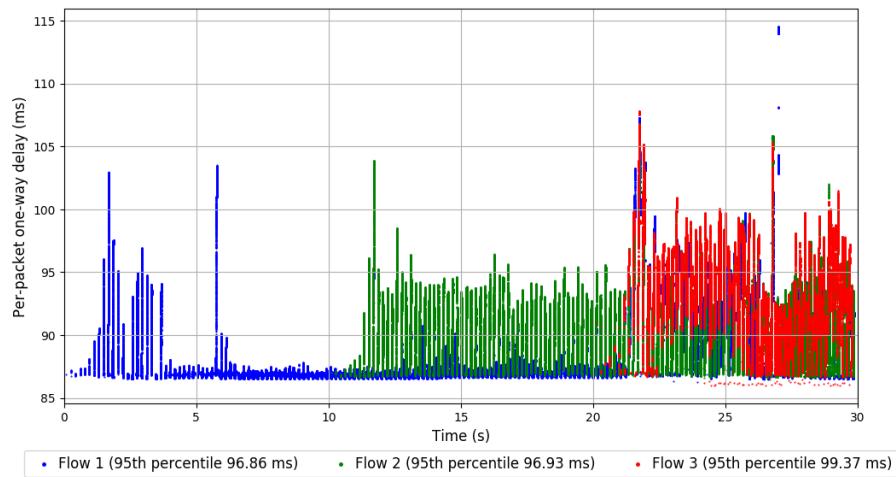
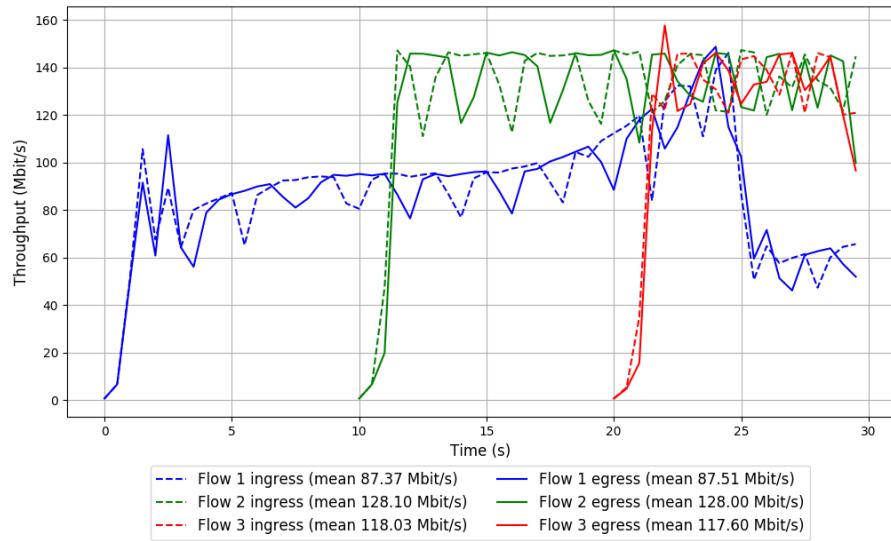
Run 10: Statistics of TCP Cubic

Start at: 2018-02-17 01:57:35

End at: 2018-02-17 01:58:05

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.69 Mbit/s
95th percentile per-packet one-way delay: 98.073 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 96.858 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 128.00 Mbit/s
95th percentile per-packet one-way delay: 96.930 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 117.60 Mbit/s
95th percentile per-packet one-way delay: 99.368 ms
Loss rate: 2.08%
```

Run 10: Report of TCP Cubic — Data Link

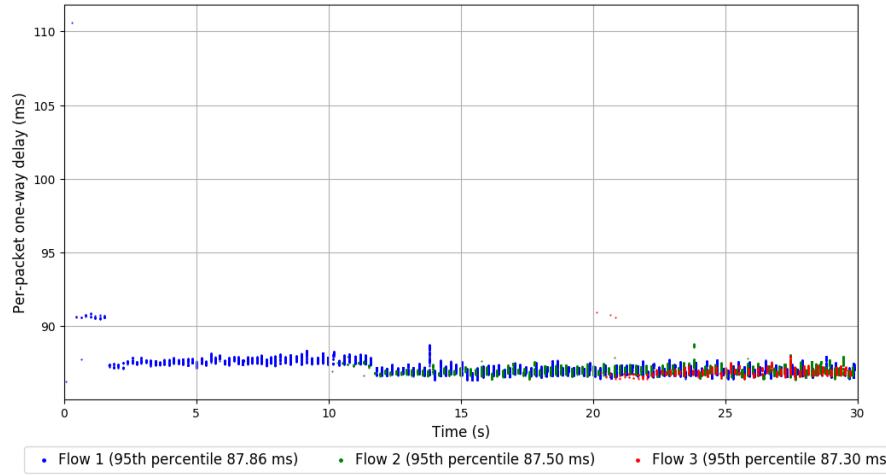
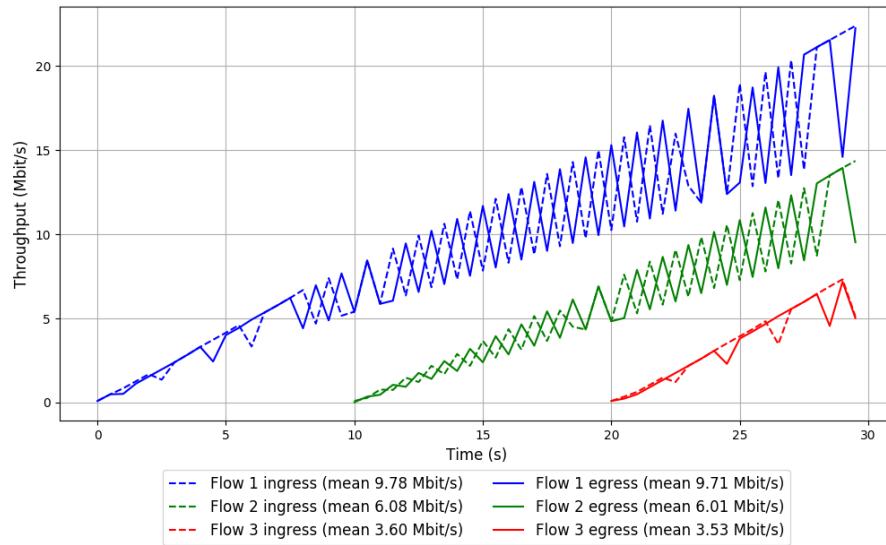


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 22:49:47
End at: 2018-02-16 22:50:17

# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.83 Mbit/s
95th percentile per-packet one-way delay: 87.788 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 9.71 Mbit/s
95th percentile per-packet one-way delay: 87.865 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 87.496 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 87.302 ms
Loss rate: 3.68%
```

Run 1: Report of LEDBAT — Data Link



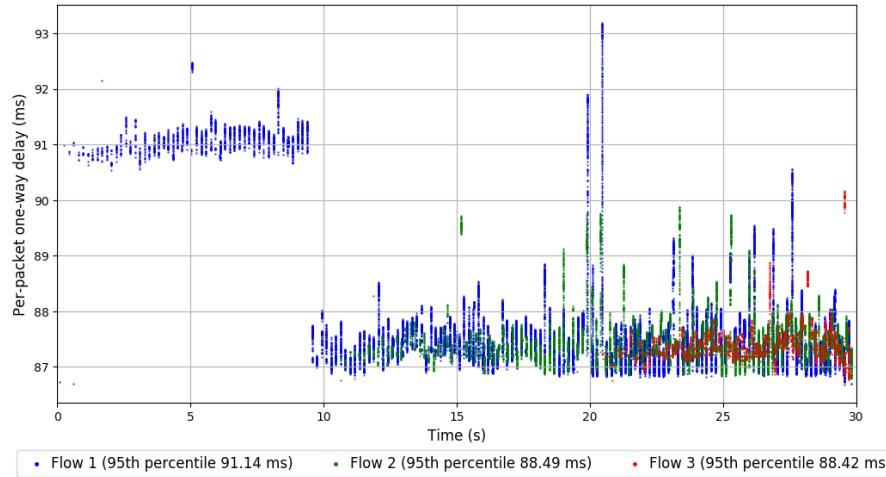
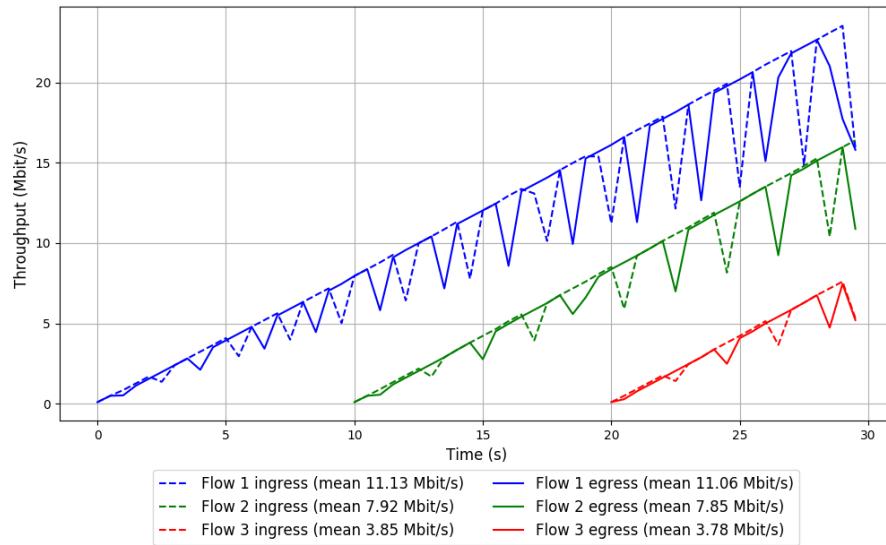
Run 2: Statistics of LEDBAT

Start at: 2018-02-16 23:08:49

End at: 2018-02-16 23:09:19

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.45 Mbit/s
95th percentile per-packet one-way delay: 90.963 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 91.138 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 88.489 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 88.418 ms
Loss rate: 3.59%
```

Run 2: Report of LEDBAT — Data Link



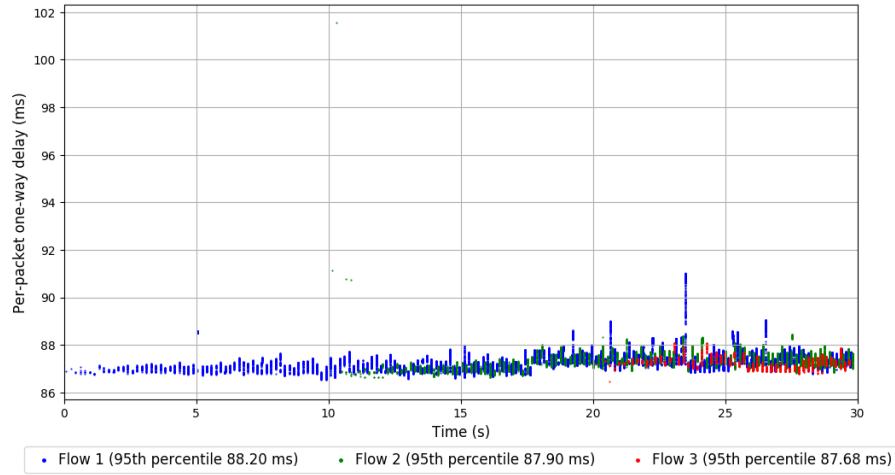
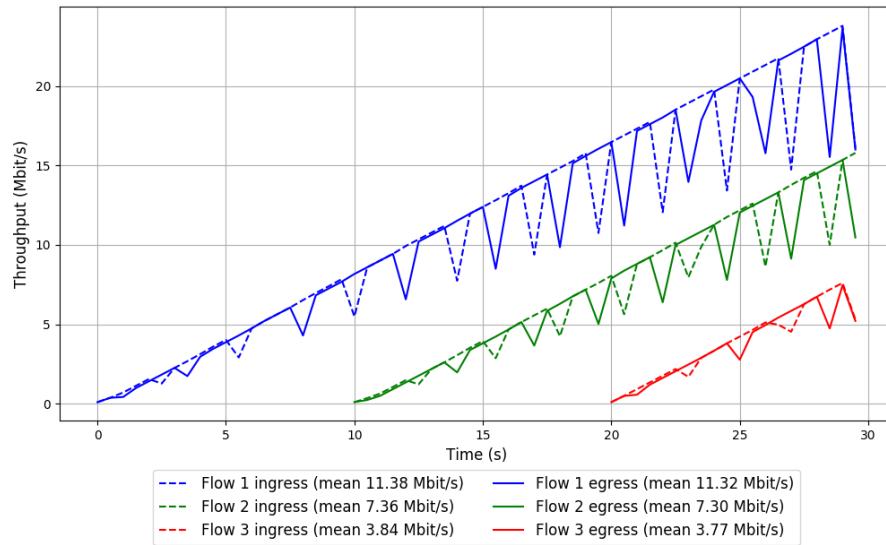
```
Run 3: Statistics of LEDBAT
```

```
Start at: 2018-02-16 23:28:01
```

```
End at: 2018-02-16 23:28:31
```

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 88.023 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 88.204 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 87.904 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 87.677 ms
Loss rate: 3.56%
```

Run 3: Report of LEDBAT — Data Link



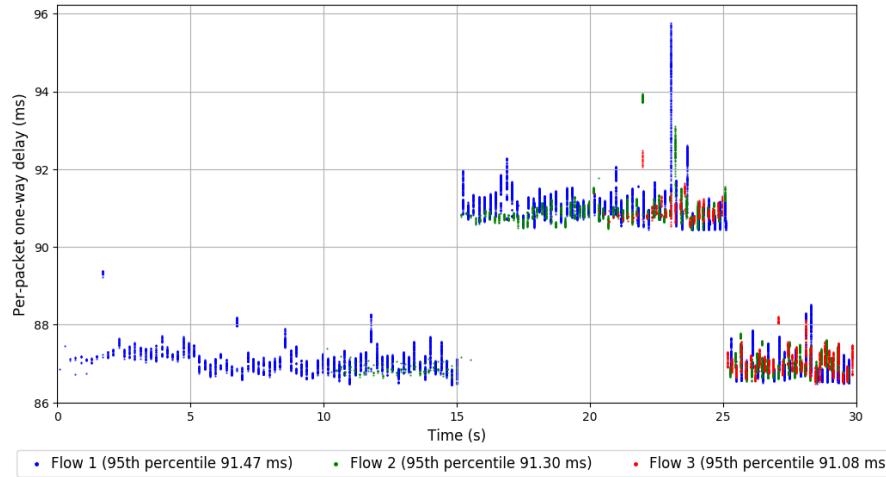
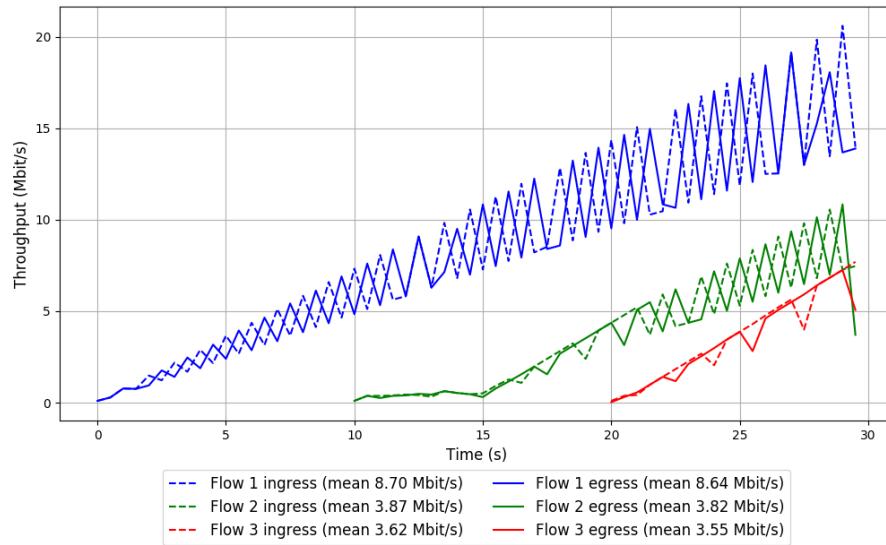
Run 4: Statistics of LEDBAT

Start at: 2018-02-16 23:47:04

End at: 2018-02-16 23:47:34

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.27 Mbit/s
95th percentile per-packet one-way delay: 91.423 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 91.467 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 91.295 ms
Loss rate: 2.45%
-- Flow 3:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 91.082 ms
Loss rate: 3.68%
```

Run 4: Report of LEDBAT — Data Link



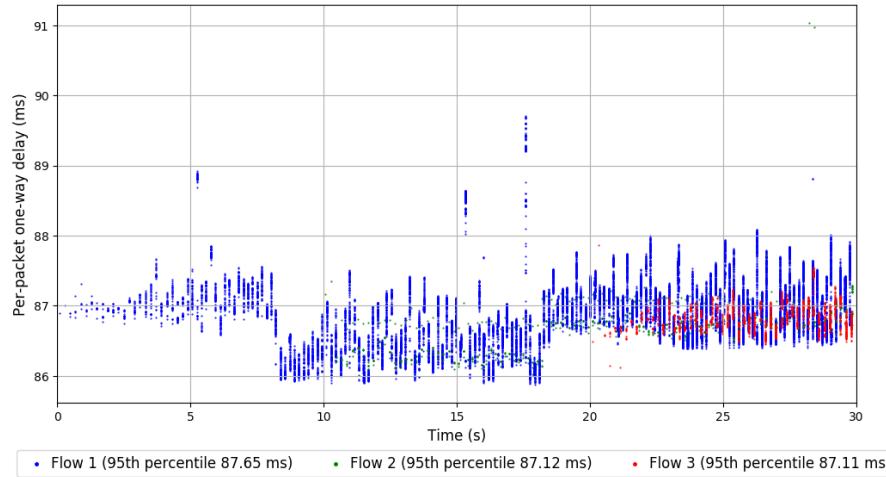
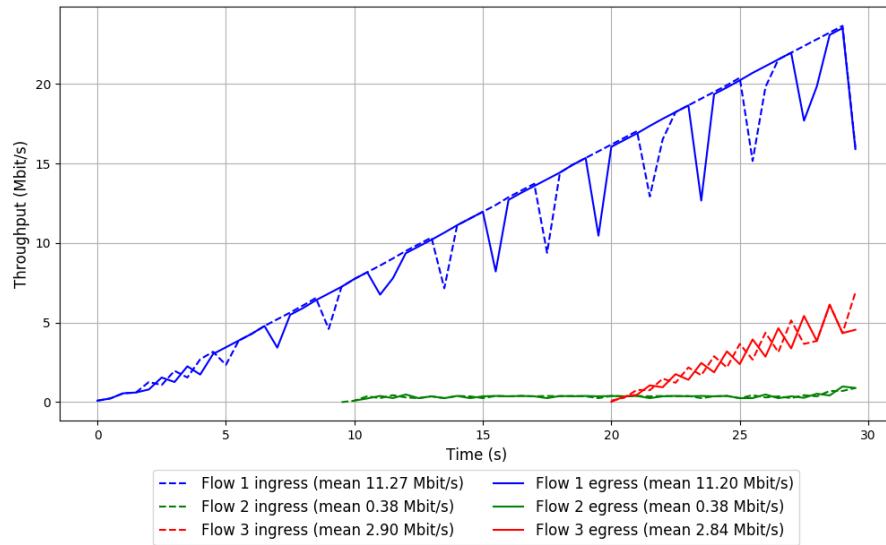
Run 5: Statistics of LEDBAT

Start at: 2018-02-17 00:06:11

End at: 2018-02-17 00:06:41

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 87.619 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 87.648 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 87.123 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 87.107 ms
Loss rate: 4.09%
```

Run 5: Report of LEDBAT — Data Link



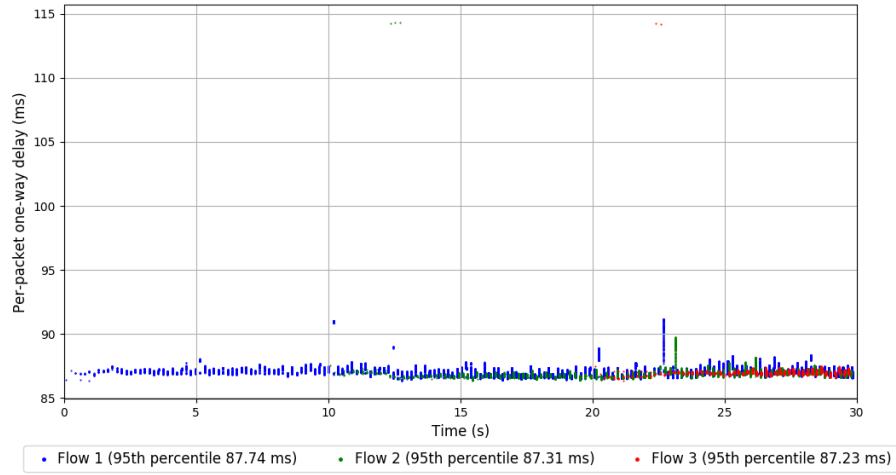
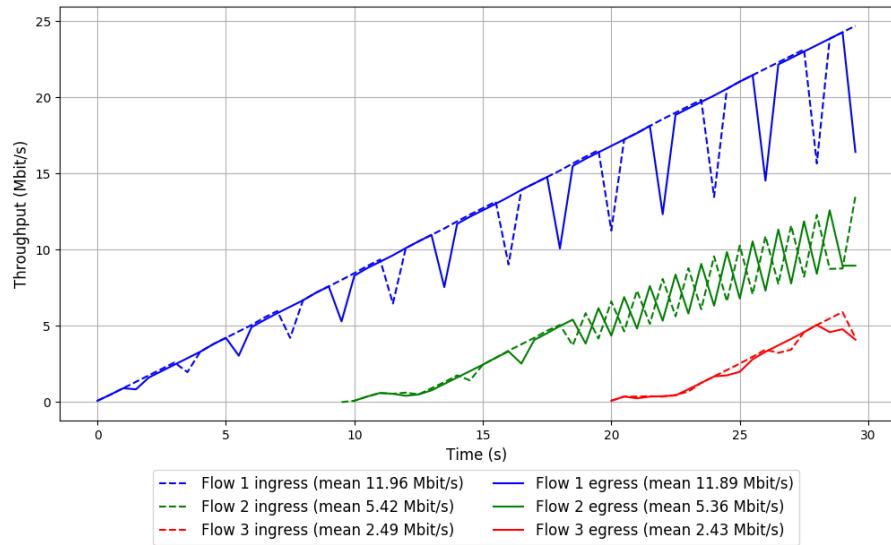
```
Run 6: Statistics of LEDBAT
```

```
Start at: 2018-02-17 00:25:37
```

```
End at: 2018-02-17 00:26:07
```

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.23 Mbit/s
95th percentile per-packet one-way delay: 87.650 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 87.740 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 87.310 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 87.233 ms
Loss rate: 4.38%
```

Run 6: Report of LEDBAT — Data Link



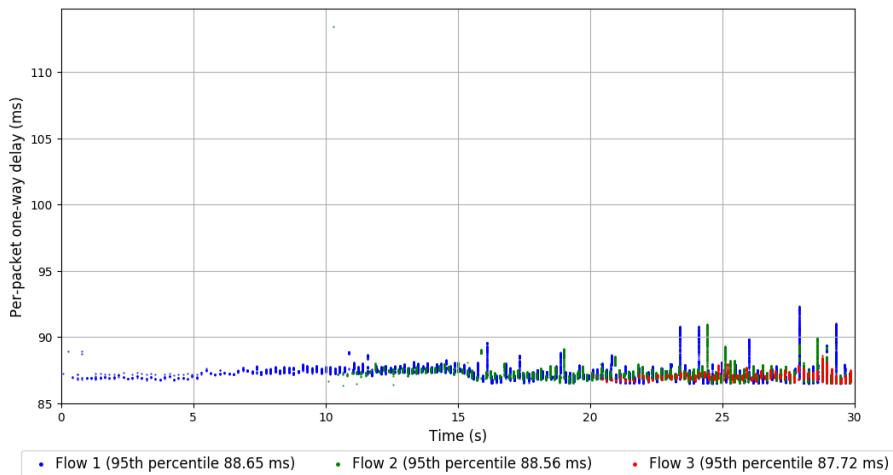
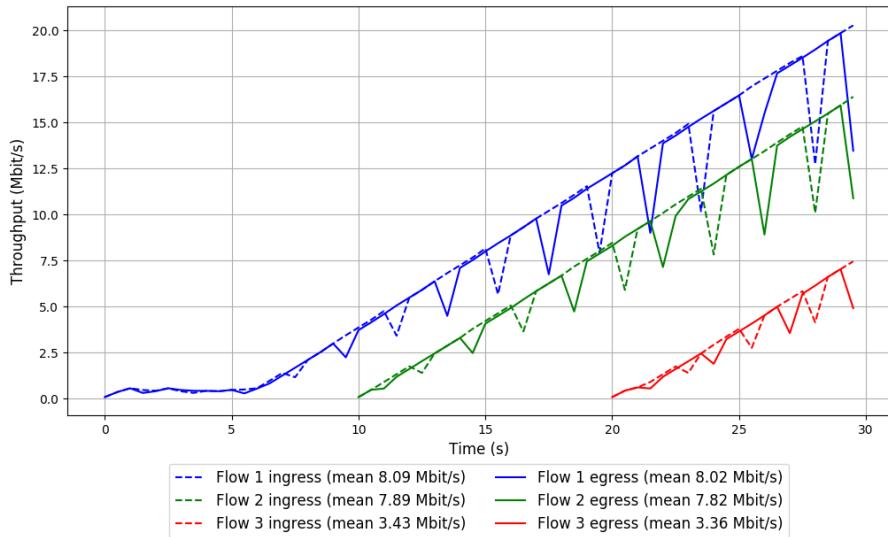
Run 7: Statistics of LEDBAT

Start at: 2018-02-17 00:44:54

End at: 2018-02-17 00:45:24

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 88.514 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 88.651 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 88.563 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 87.717 ms
Loss rate: 3.73%
```

Run 7: Report of LEDBAT — Data Link



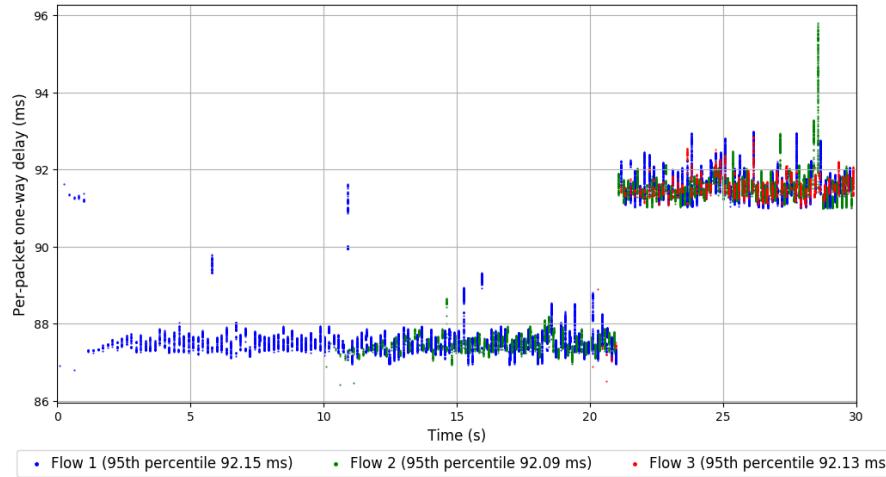
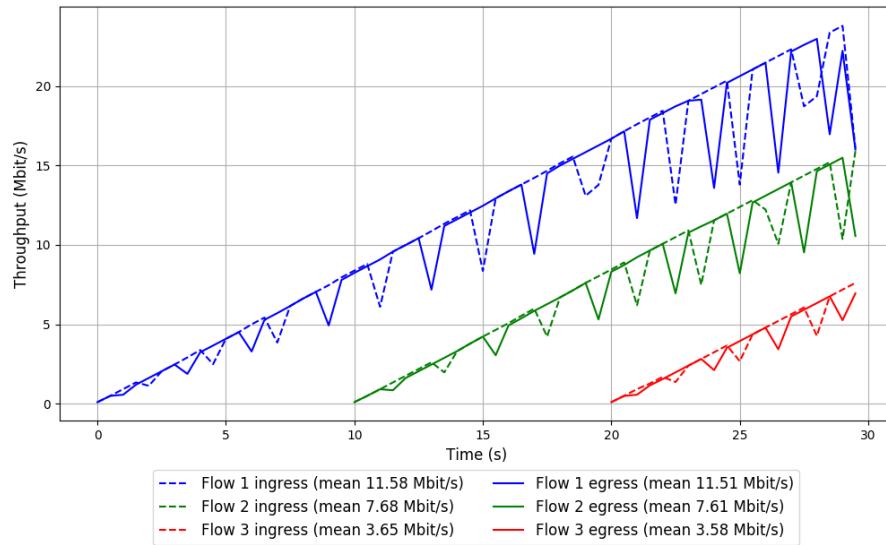
Run 8: Statistics of LEDBAT

Start at: 2018-02-17 01:03:48

End at: 2018-02-17 01:04:18

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.67 Mbit/s
95th percentile per-packet one-way delay: 92.135 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 92.147 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 92.094 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 92.130 ms
Loss rate: 3.56%
```

Run 8: Report of LEDBAT — Data Link



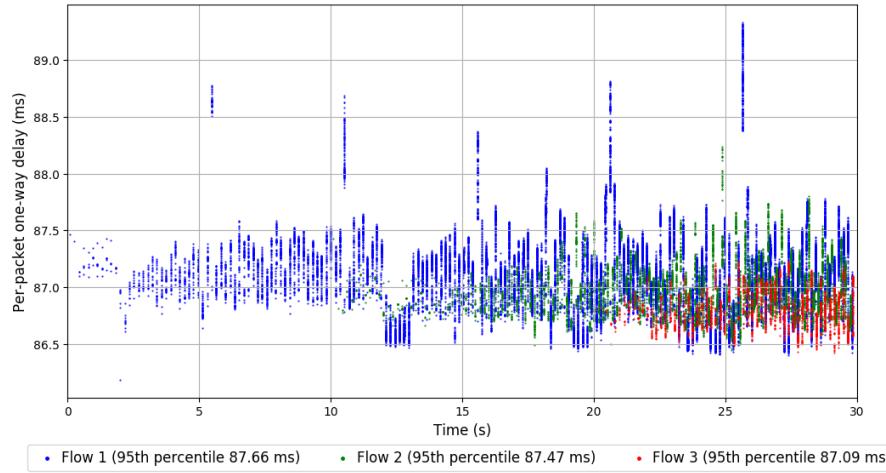
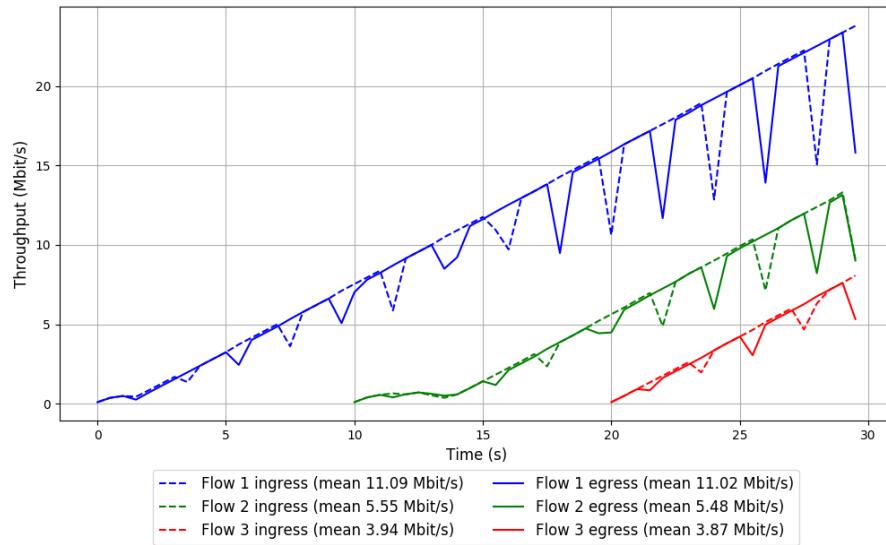
Run 9: Statistics of LEDBAT

Start at: 2018-02-17 01:22:37

End at: 2018-02-17 01:23:07

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 87.595 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 87.660 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 5.48 Mbit/s
95th percentile per-packet one-way delay: 87.465 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.088 ms
Loss rate: 3.52%
```

Run 9: Report of LEDBAT — Data Link



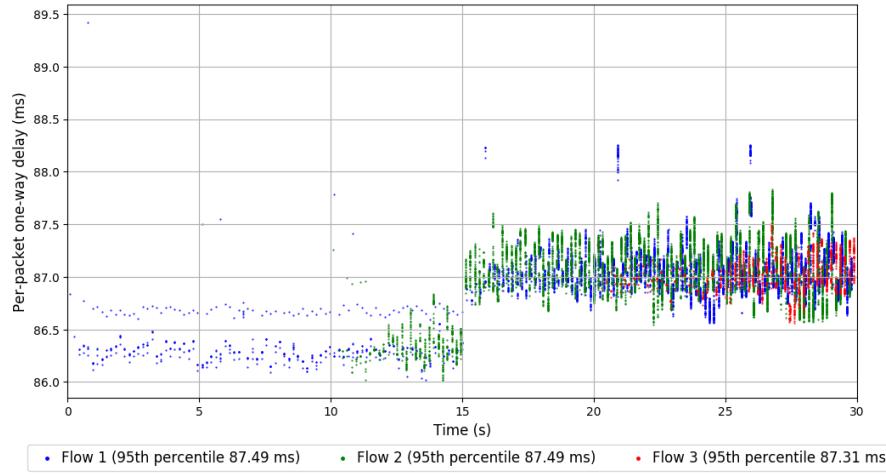
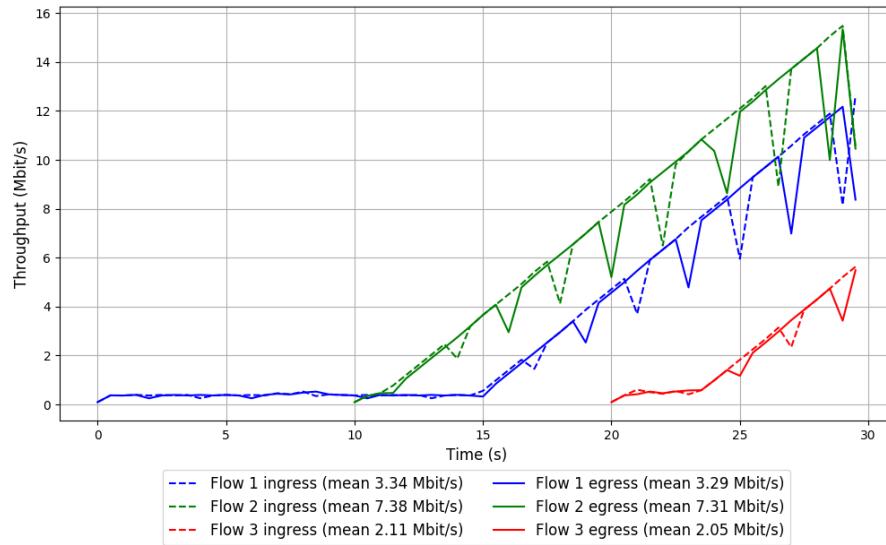
Run 10: Statistics of LEDBAT

Start at: 2018-02-17 01:41:24

End at: 2018-02-17 01:41:54

```
# Below is generated by plot.py at 2018-02-17 05:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 87.476 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 87.493 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 87.486 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 87.315 ms
Loss rate: 4.59%
```

Run 10: Report of LEDBAT — Data Link

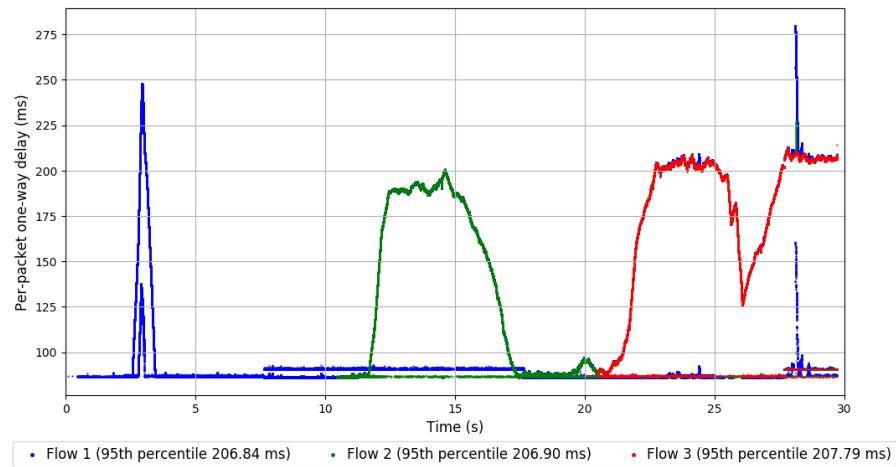
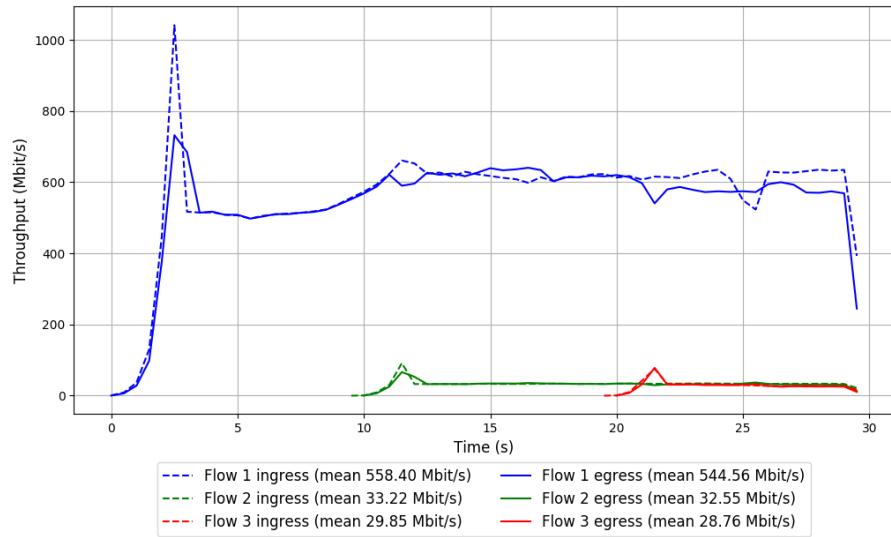


```
Run 1: Statistics of PCC

Start at: 2018-02-16 22:58:41
End at: 2018-02-16 22:59:11

# Below is generated by plot.py at 2018-02-17 05:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.42 Mbit/s
95th percentile per-packet one-way delay: 206.881 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 544.56 Mbit/s
95th percentile per-packet one-way delay: 206.845 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 32.55 Mbit/s
95th percentile per-packet one-way delay: 206.897 ms
Loss rate: 3.01%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 207.786 ms
Loss rate: 5.59%
```

Run 1: Report of PCC — Data Link



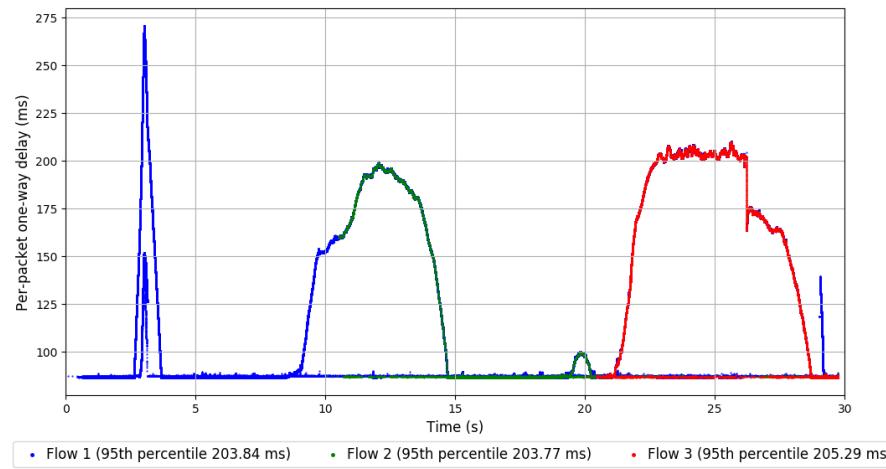
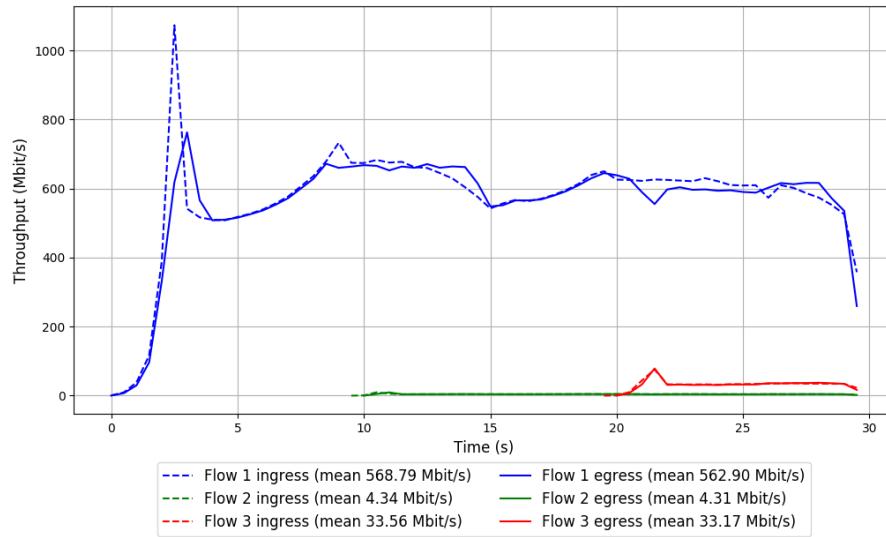
Run 2: Statistics of PCC

Start at: 2018-02-16 23:17:30

End at: 2018-02-16 23:18:00

```
# Below is generated by plot.py at 2018-02-17 05:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 576.56 Mbit/s
95th percentile per-packet one-way delay: 203.902 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 562.90 Mbit/s
95th percentile per-packet one-way delay: 203.840 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 203.767 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 33.17 Mbit/s
95th percentile per-packet one-way delay: 205.292 ms
Loss rate: 2.93%
```

Run 2: Report of PCC — Data Link



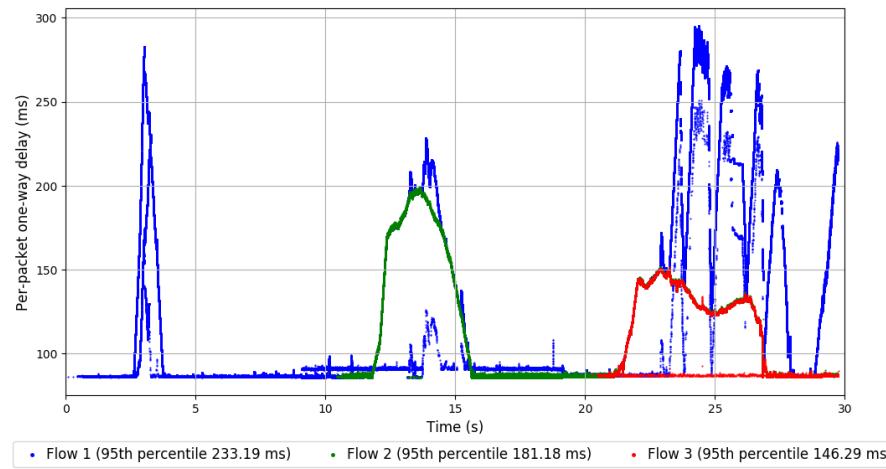
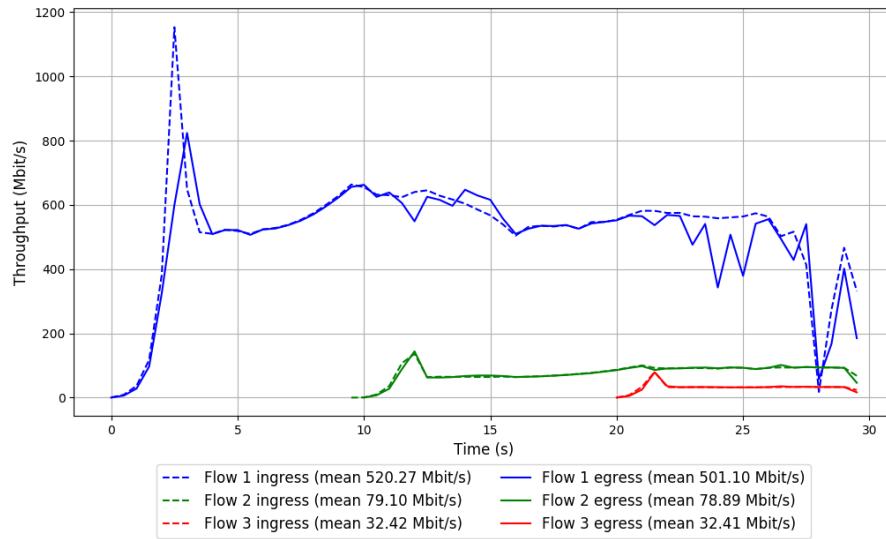
Run 3: Statistics of PCC

Start at: 2018-02-16 23:36:50

End at: 2018-02-16 23:37:20

```
# Below is generated by plot.py at 2018-02-17 05:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 563.89 Mbit/s
95th percentile per-packet one-way delay: 225.379 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 501.10 Mbit/s
95th percentile per-packet one-way delay: 233.192 ms
Loss rate: 4.33%
-- Flow 2:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 181.181 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 32.41 Mbit/s
95th percentile per-packet one-way delay: 146.287 ms
Loss rate: 2.05%
```

Run 3: Report of PCC — Data Link



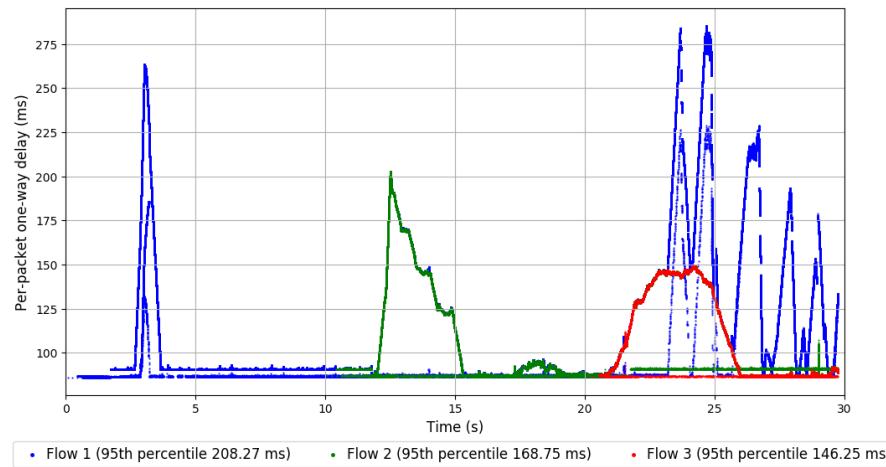
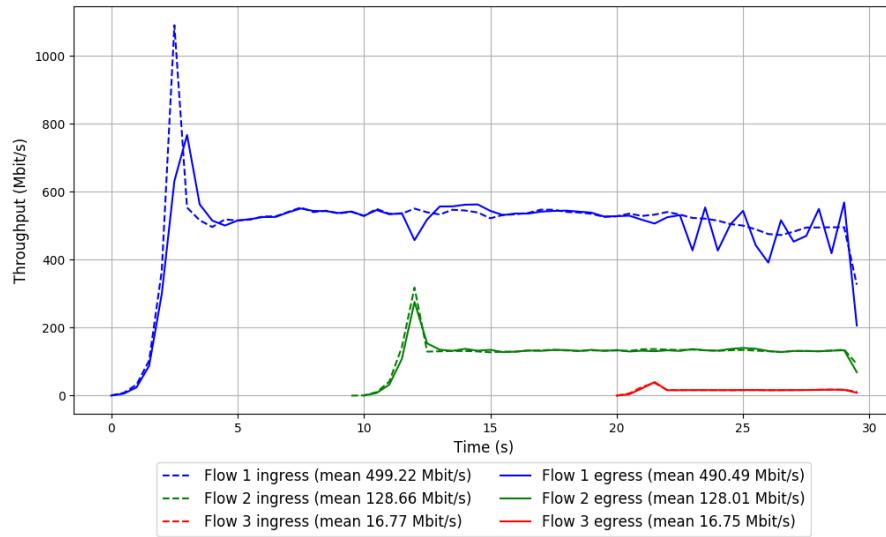
Run 4: Statistics of PCC

Start at: 2018-02-16 23:55:57

End at: 2018-02-16 23:56:27

```
# Below is generated by plot.py at 2018-02-17 05:39:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 580.80 Mbit/s
95th percentile per-packet one-way delay: 198.870 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 490.49 Mbit/s
95th percentile per-packet one-way delay: 208.267 ms
Loss rate: 2.32%
-- Flow 2:
Average throughput: 128.01 Mbit/s
95th percentile per-packet one-way delay: 168.751 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 16.75 Mbit/s
95th percentile per-packet one-way delay: 146.251 ms
Loss rate: 1.82%
```

Run 4: Report of PCC — Data Link



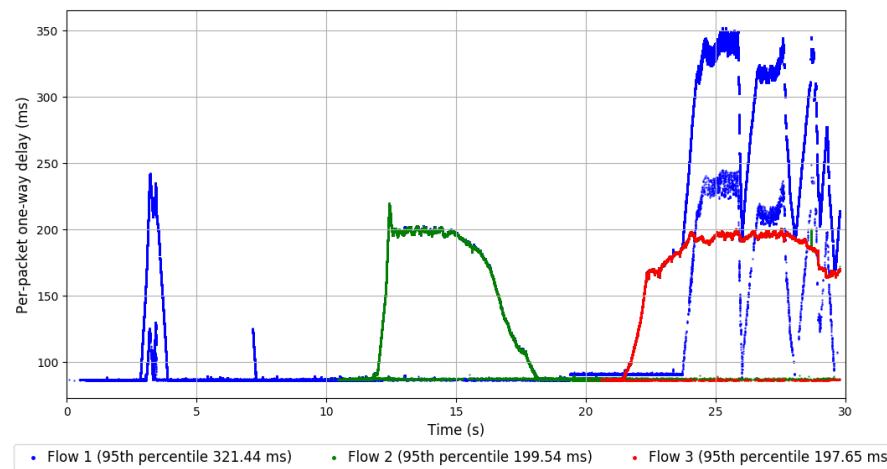
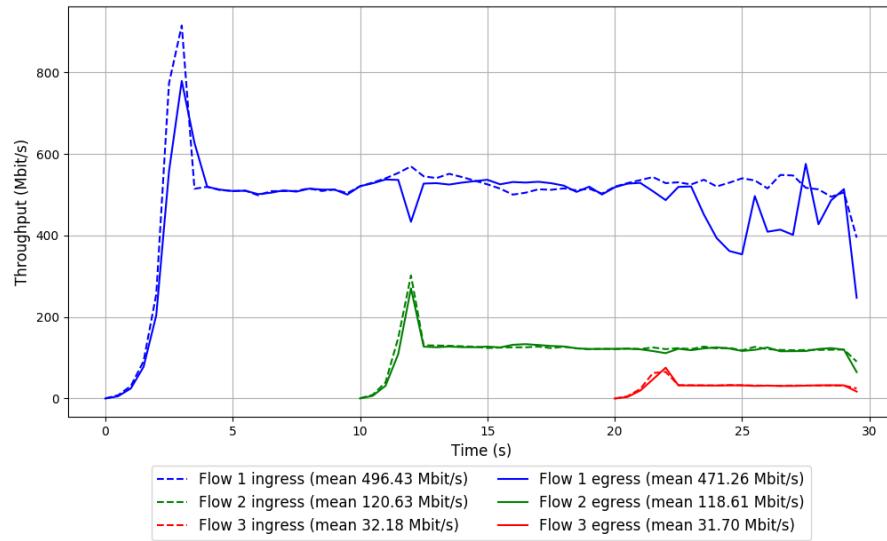
Run 5: Statistics of PCC

Start at: 2018-02-17 00:14:59

End at: 2018-02-17 00:15:29

```
# Below is generated by plot.py at 2018-02-17 05:40:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.13 Mbit/s
95th percentile per-packet one-way delay: 317.797 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 471.26 Mbit/s
95th percentile per-packet one-way delay: 321.438 ms
Loss rate: 5.71%
-- Flow 2:
Average throughput: 118.61 Mbit/s
95th percentile per-packet one-way delay: 199.544 ms
Loss rate: 2.66%
-- Flow 3:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 197.652 ms
Loss rate: 3.51%
```

Run 5: Report of PCC — Data Link



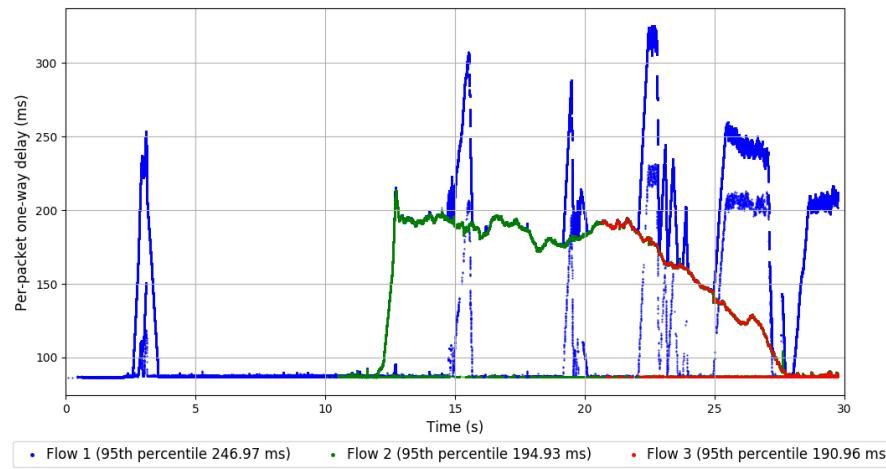
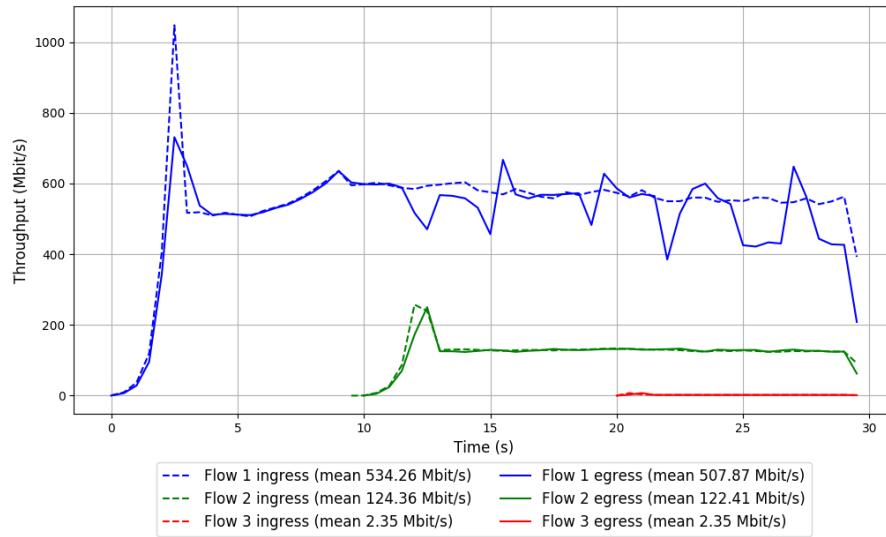
Run 6: Statistics of PCC

Start at: 2018-02-17 00:34:27

End at: 2018-02-17 00:34:57

```
# Below is generated by plot.py at 2018-02-17 05:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 589.84 Mbit/s
95th percentile per-packet one-way delay: 244.562 ms
Loss rate: 5.17%
-- Flow 1:
Average throughput: 507.87 Mbit/s
95th percentile per-packet one-way delay: 246.971 ms
Loss rate: 5.57%
-- Flow 2:
Average throughput: 122.41 Mbit/s
95th percentile per-packet one-way delay: 194.929 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 190.962 ms
Loss rate: 2.08%
```

Run 6: Report of PCC — Data Link



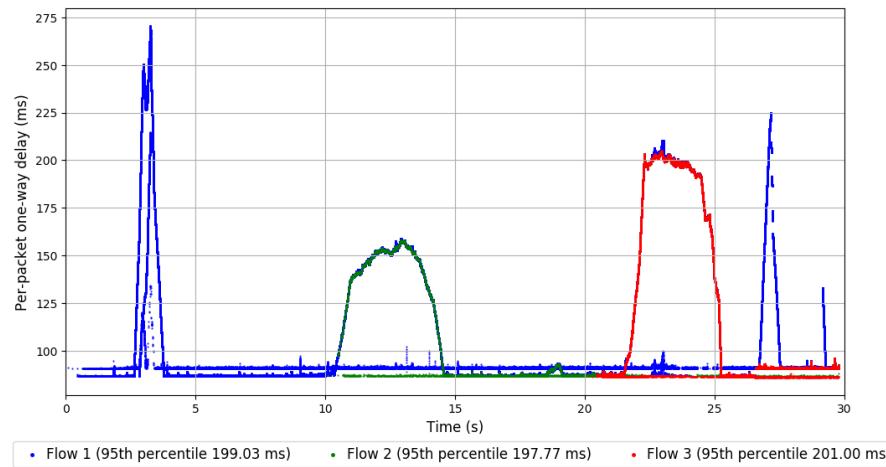
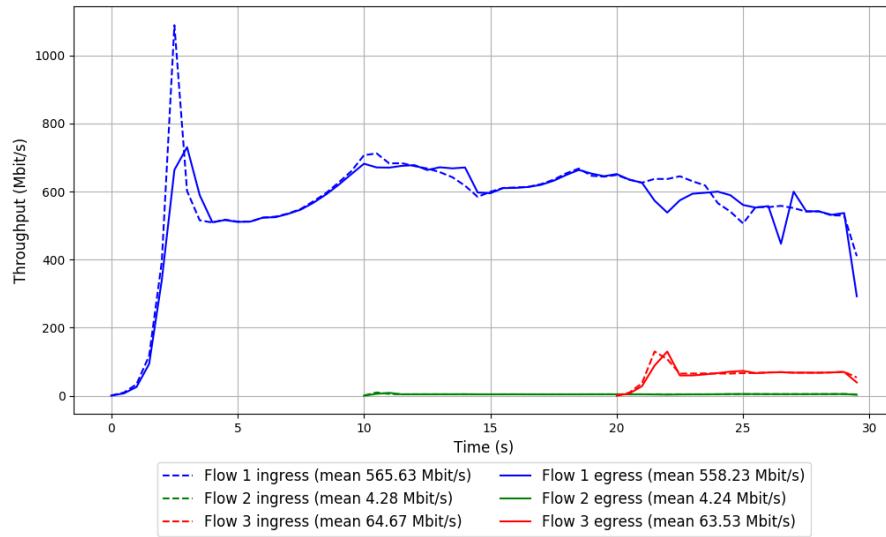
Run 7: Statistics of PCC

Start at: 2018-02-17 00:53:32

End at: 2018-02-17 00:54:02

```
# Below is generated by plot.py at 2018-02-17 05:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 581.69 Mbit/s
95th percentile per-packet one-way delay: 199.195 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 558.23 Mbit/s
95th percentile per-packet one-way delay: 199.027 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 197.768 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 63.53 Mbit/s
95th percentile per-packet one-way delay: 200.997 ms
Loss rate: 3.65%
```

Run 7: Report of PCC — Data Link



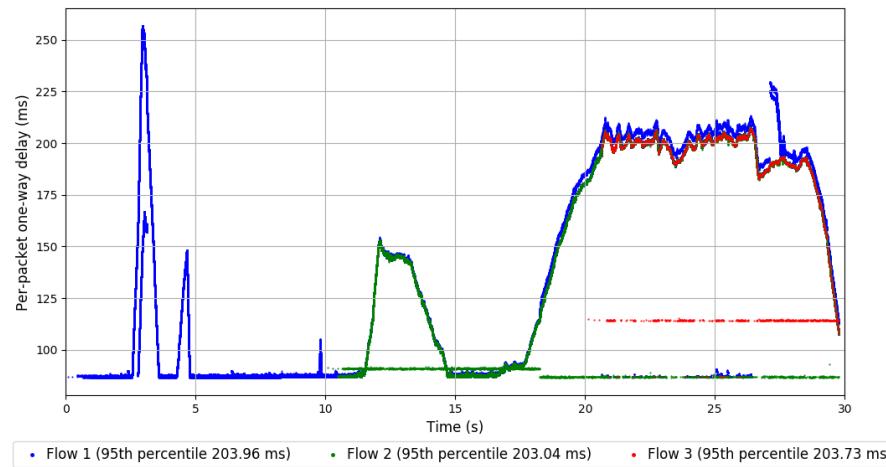
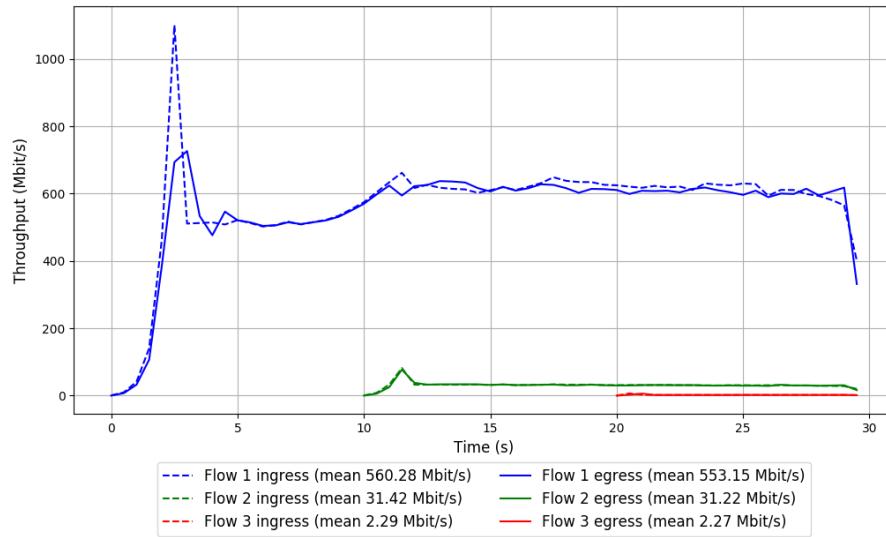
Run 8: Statistics of PCC

Start at: 2018-02-17 01:12:31

End at: 2018-02-17 01:13:01

```
# Below is generated by plot.py at 2018-02-17 05:42:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.58 Mbit/s
95th percentile per-packet one-way delay: 203.916 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 553.15 Mbit/s
95th percentile per-packet one-way delay: 203.963 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 203.040 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 203.733 ms
Loss rate: 2.95%
```

Run 8: Report of PCC — Data Link



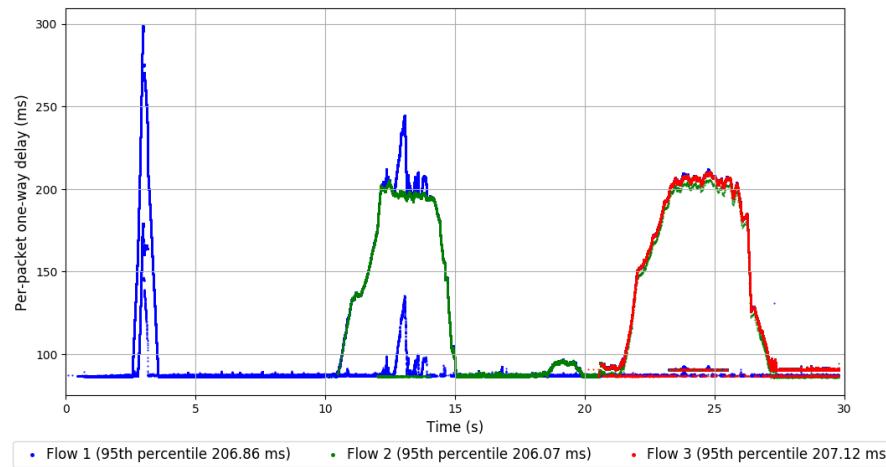
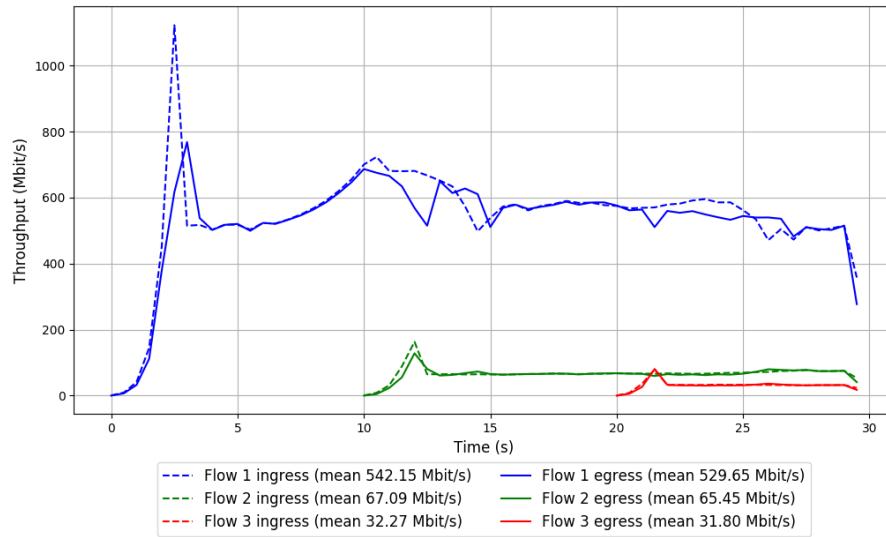
Run 9: Statistics of PCC

Start at: 2018-02-17 01:31:08

End at: 2018-02-17 01:31:38

```
# Below is generated by plot.py at 2018-02-17 05:49:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 583.29 Mbit/s
95th percentile per-packet one-way delay: 206.787 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 529.65 Mbit/s
95th percentile per-packet one-way delay: 206.860 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 65.45 Mbit/s
95th percentile per-packet one-way delay: 206.070 ms
Loss rate: 3.30%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 207.117 ms
Loss rate: 3.24%
```

Run 9: Report of PCC — Data Link



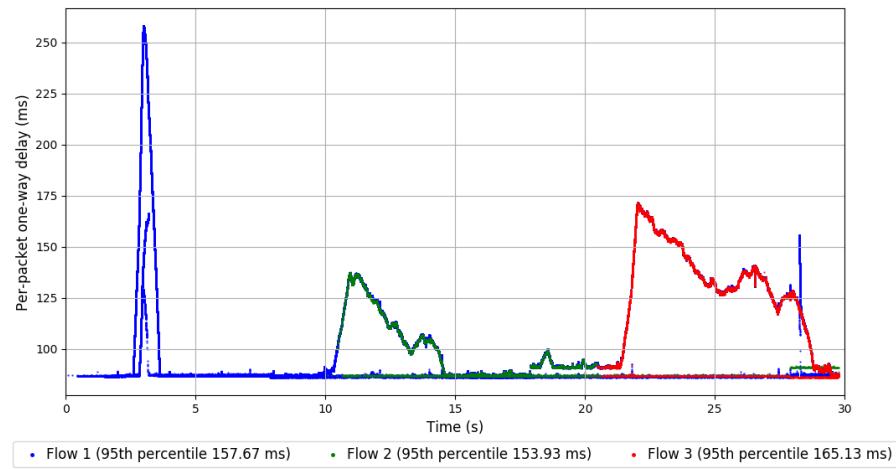
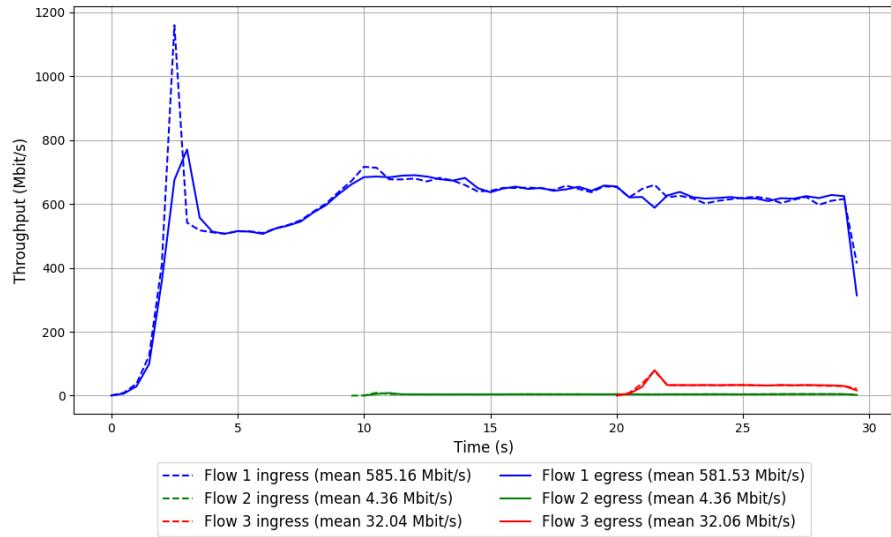
Run 10: Statistics of PCC

Start at: 2018-02-17 01:50:01

End at: 2018-02-17 01:50:31

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 594.81 Mbit/s
95th percentile per-packet one-way delay: 157.731 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 581.53 Mbit/s
95th percentile per-packet one-way delay: 157.667 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 153.925 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 32.06 Mbit/s
95th percentile per-packet one-way delay: 165.128 ms
Loss rate: 1.71%
```

Run 10: Report of PCC — Data Link

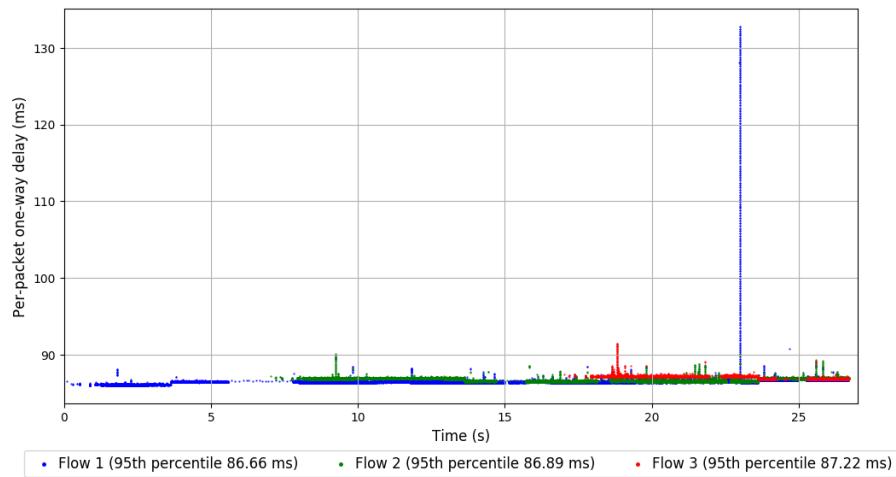
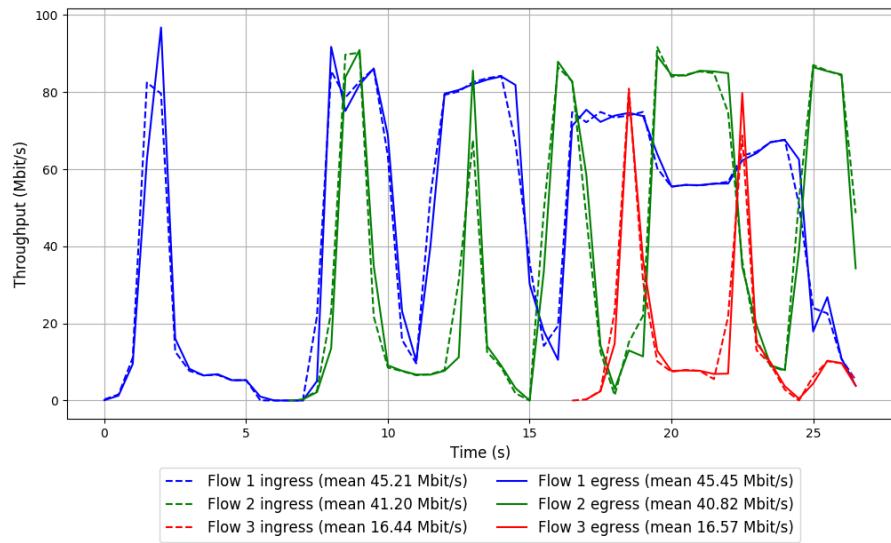


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 22:50:32
End at: 2018-02-16 22:51:02

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.64 Mbit/s
95th percentile per-packet one-way delay: 87.088 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 86.661 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 40.82 Mbit/s
95th percentile per-packet one-way delay: 86.893 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 16.57 Mbit/s
95th percentile per-packet one-way delay: 87.224 ms
Loss rate: 1.02%
```

Run 1: Report of QUIC Cubic — Data Link



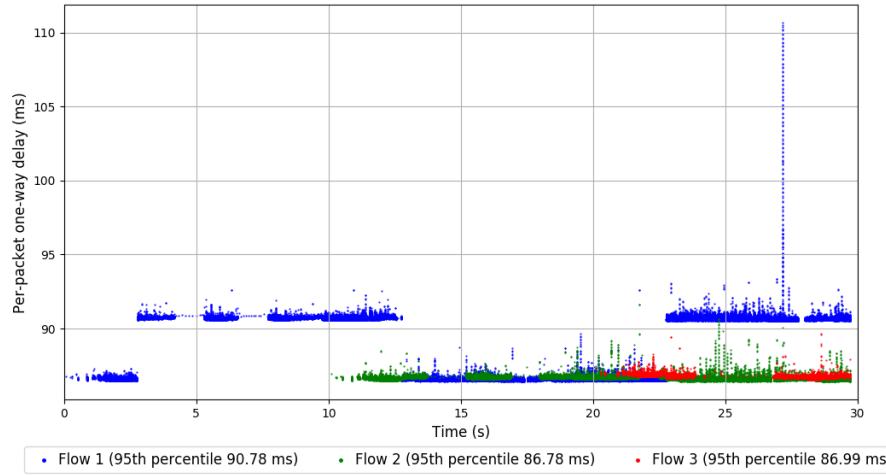
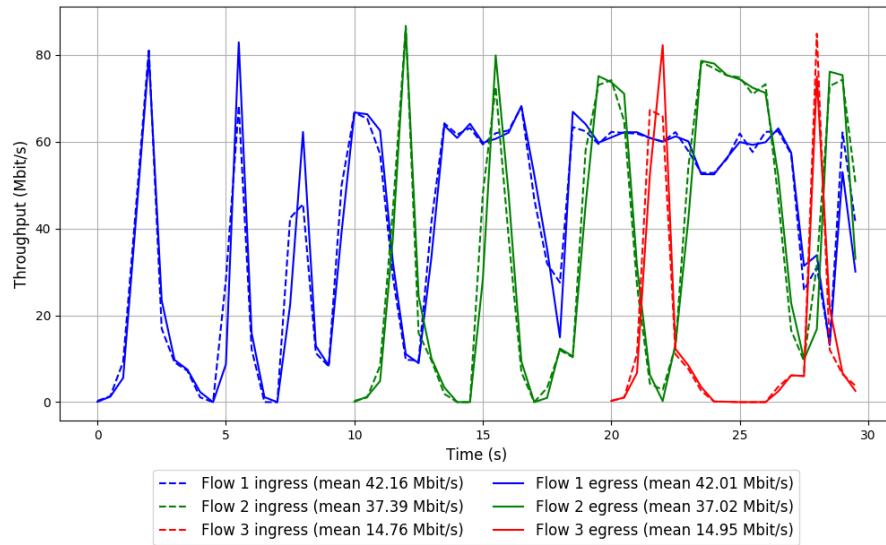
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 23:09:36

End at: 2018-02-16 23:10:06

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.36 Mbit/s
95th percentile per-packet one-way delay: 90.729 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 90.779 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 86.781 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 86.987 ms
Loss rate: 0.77%
```

Run 2: Report of QUIC Cubic — Data Link



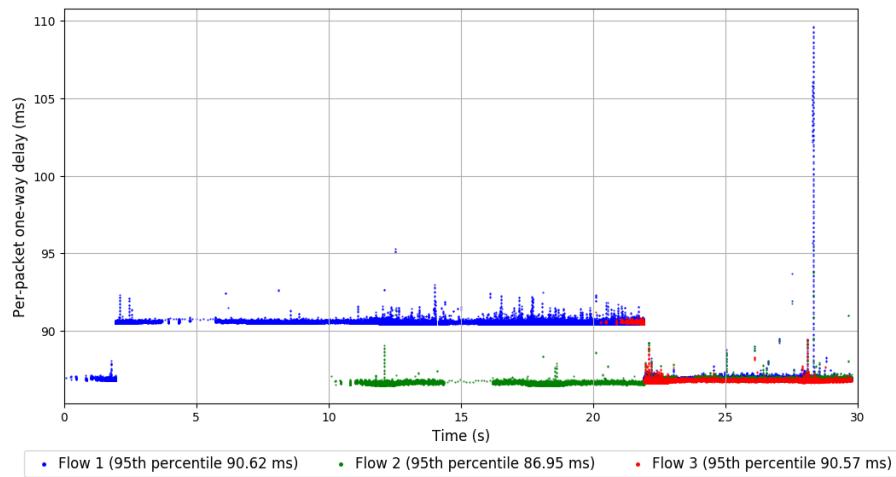
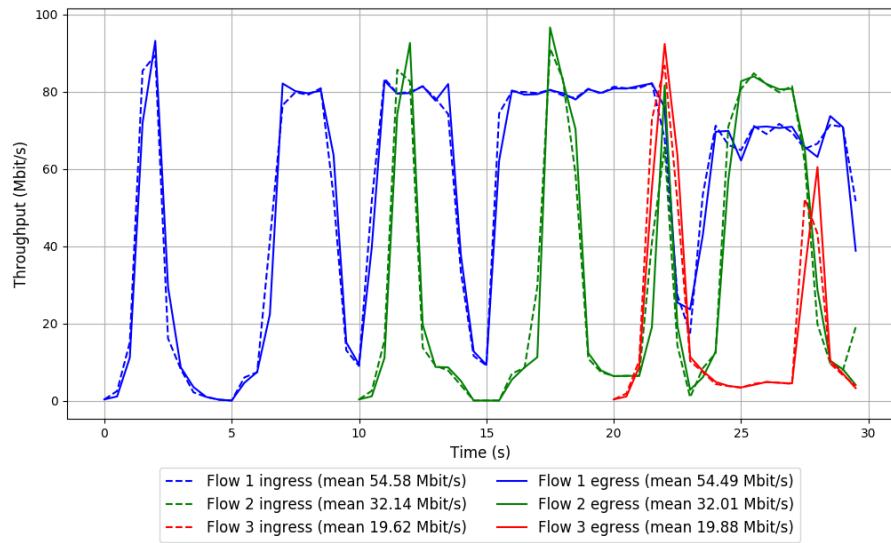
```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2018-02-16 23:28:47
```

```
End at: 2018-02-16 23:29:17
```

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.19 Mbit/s
95th percentile per-packet one-way delay: 90.602 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 54.49 Mbit/s
95th percentile per-packet one-way delay: 90.623 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 19.88 Mbit/s
95th percentile per-packet one-way delay: 90.572 ms
Loss rate: 0.45%
```

Run 3: Report of QUIC Cubic — Data Link



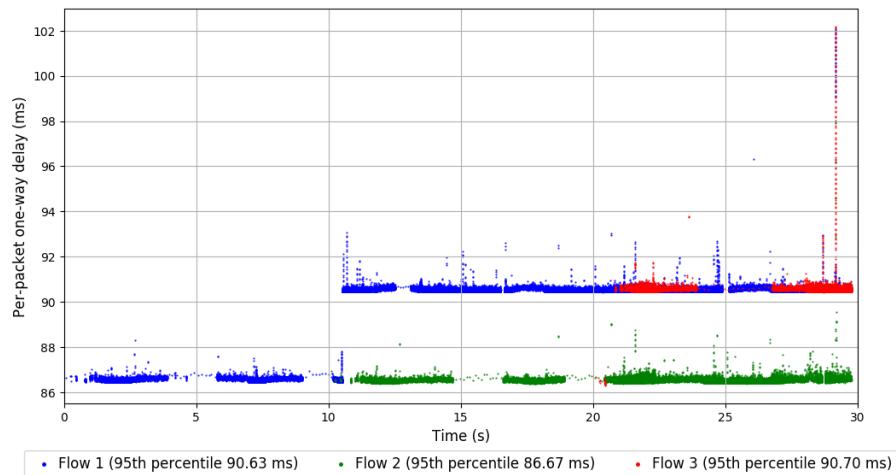
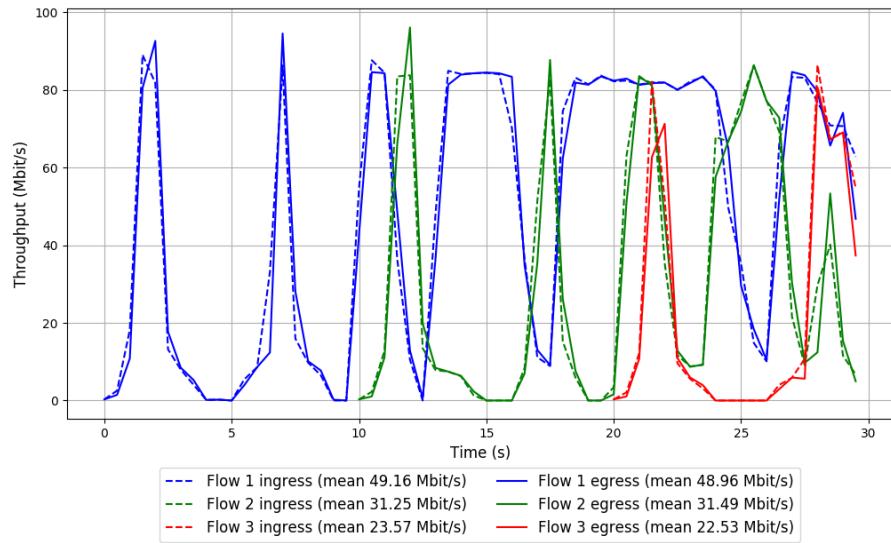
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 23:47:48

End at: 2018-02-16 23:48:18

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.17 Mbit/s
95th percentile per-packet one-way delay: 90.623 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 48.96 Mbit/s
95th percentile per-packet one-way delay: 90.627 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 86.669 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 90.701 ms
Loss rate: 6.37%
```

Run 4: Report of QUIC Cubic — Data Link



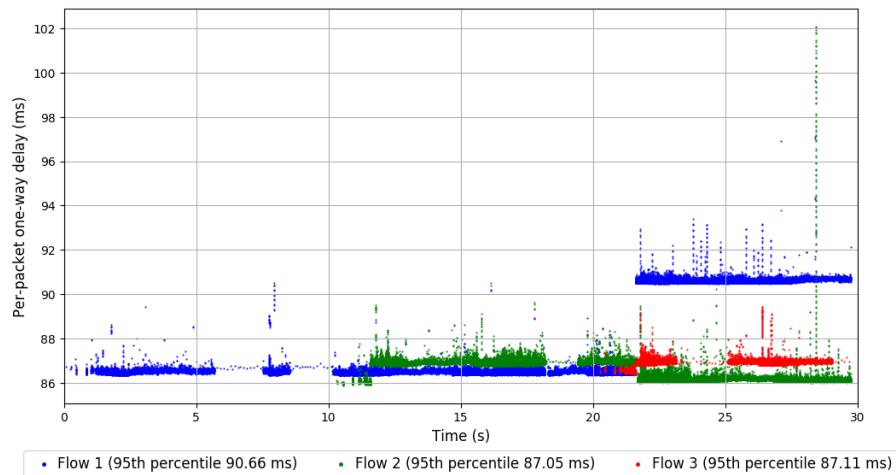
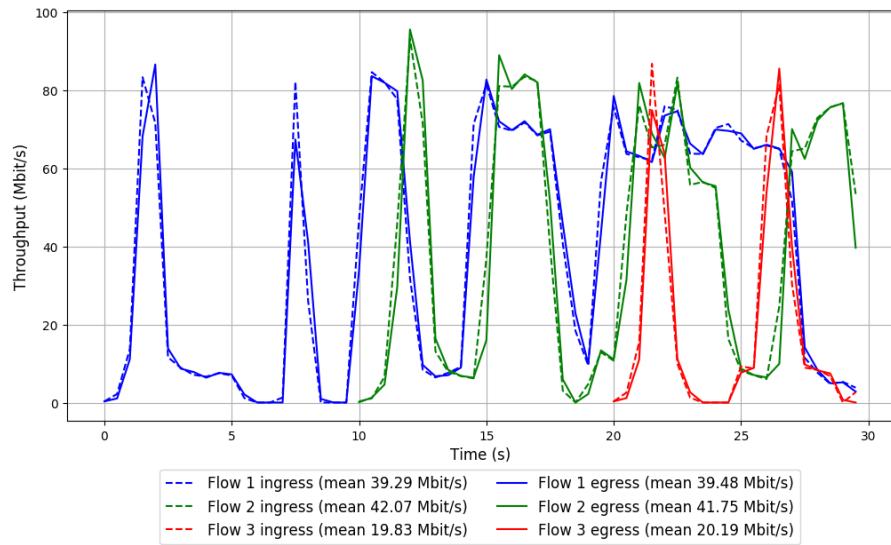
Run 5: Statistics of QUIC Cubic

Start at: 2018-02-17 00:06:57

End at: 2018-02-17 00:07:27

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.62 Mbit/s
95th percentile per-packet one-way delay: 90.621 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 90.660 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 87.052 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 20.19 Mbit/s
95th percentile per-packet one-way delay: 87.105 ms
Loss rate: 0.68%
```

Run 5: Report of QUIC Cubic — Data Link



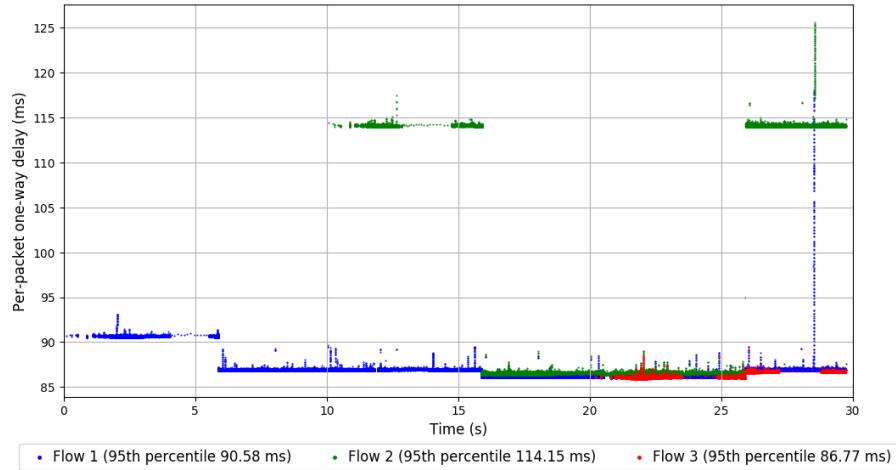
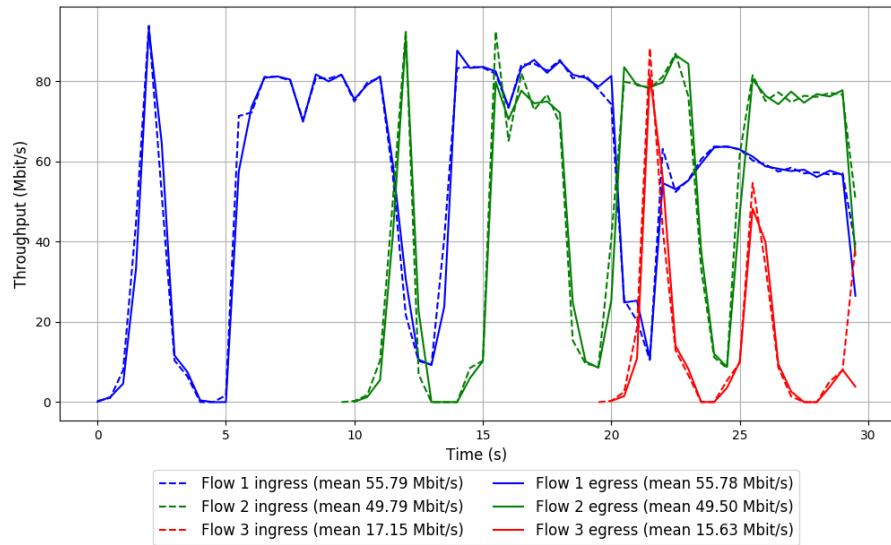
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-17 00:26:23

End at: 2018-02-17 00:26:53

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 114.076 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 55.78 Mbit/s
95th percentile per-packet one-way delay: 90.584 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 49.50 Mbit/s
95th percentile per-packet one-way delay: 114.153 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 86.774 ms
Loss rate: 10.71%
```

Run 6: Report of QUIC Cubic — Data Link



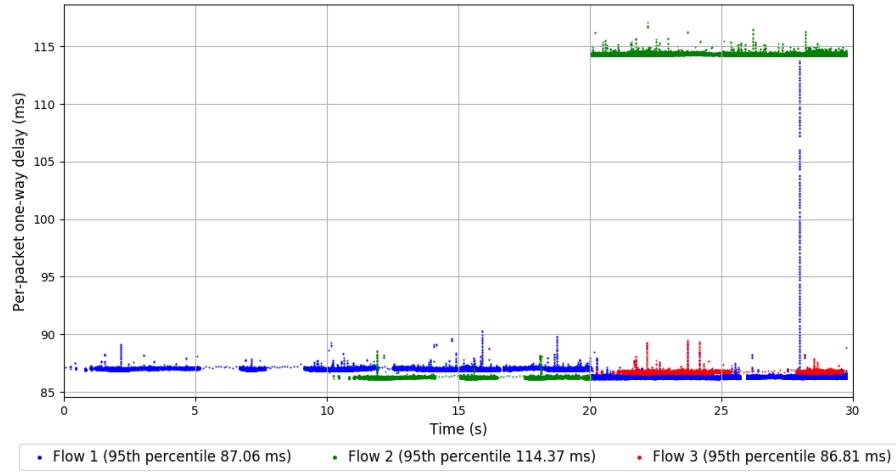
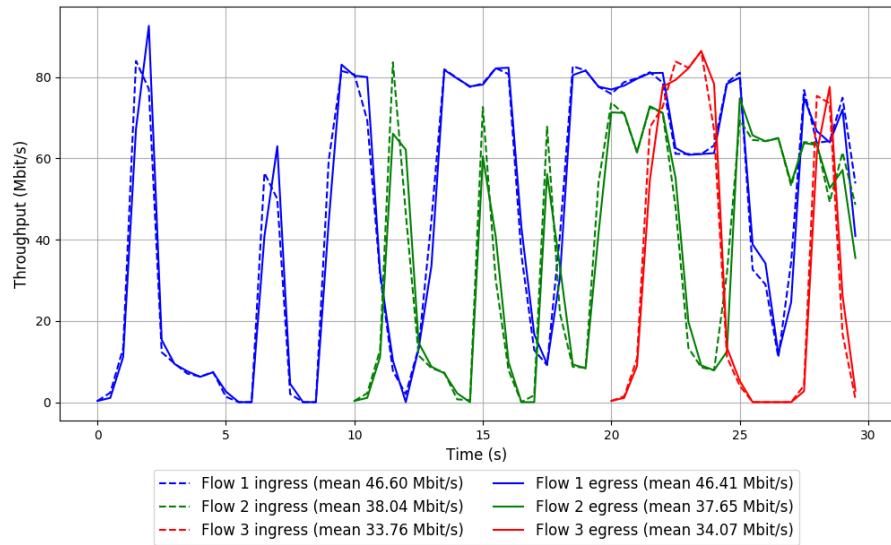
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-17 00:45:39

End at: 2018-02-17 00:46:09

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.45 Mbit/s
95th percentile per-packet one-way delay: 114.290 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 87.061 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 37.65 Mbit/s
95th percentile per-packet one-way delay: 114.367 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 34.07 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link



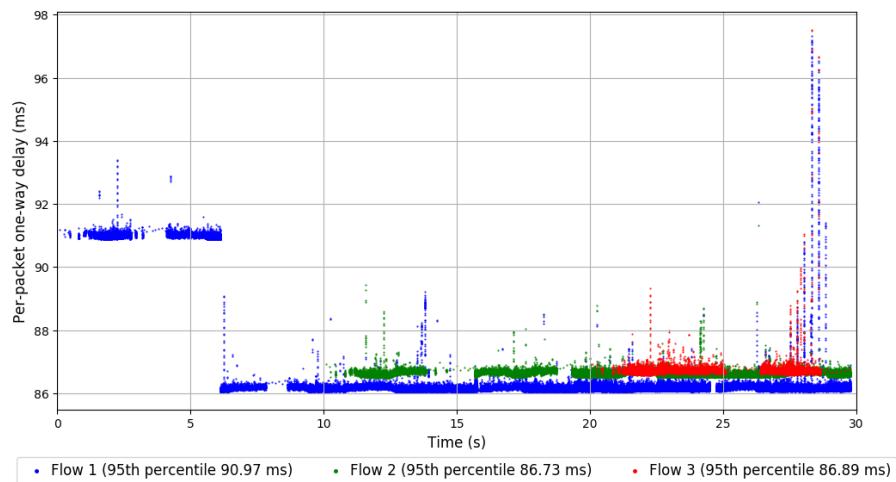
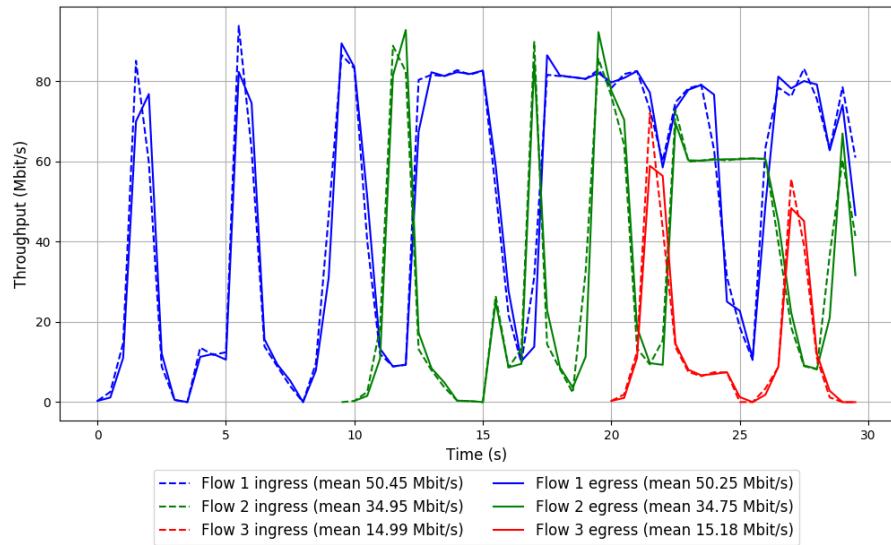
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-17 01:04:33

End at: 2018-02-17 01:05:03

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.21 Mbit/s
95th percentile per-packet one-way delay: 90.931 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 90.966 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 86.729 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 15.18 Mbit/s
95th percentile per-packet one-way delay: 86.889 ms
Loss rate: 0.00%
```

Run 8: Report of QUIC Cubic — Data Link



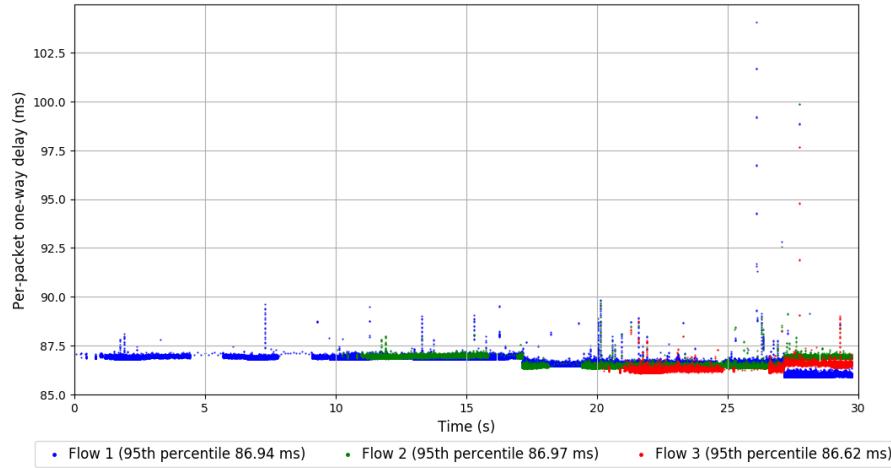
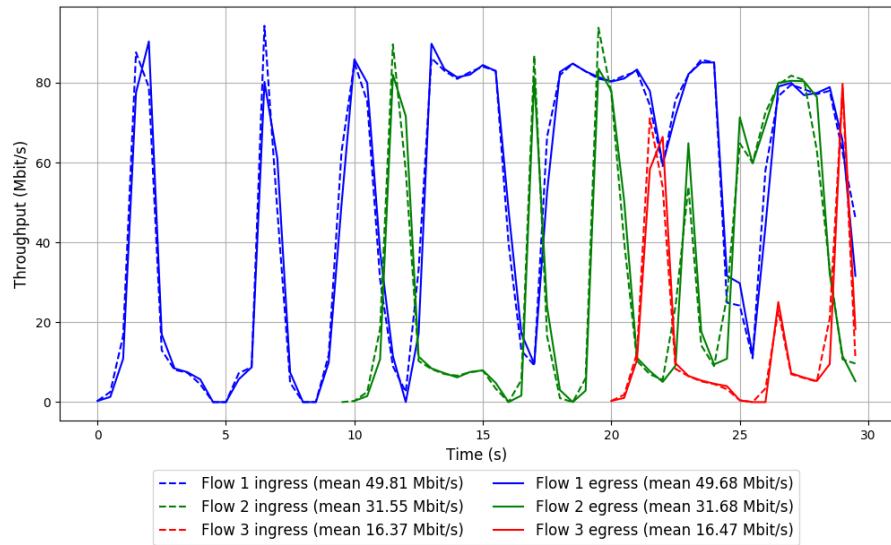
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-17 01:23:22

End at: 2018-02-17 01:23:52

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.06 Mbit/s
95th percentile per-packet one-way delay: 86.950 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 49.68 Mbit/s
95th percentile per-packet one-way delay: 86.943 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 31.68 Mbit/s
95th percentile per-packet one-way delay: 86.972 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 16.47 Mbit/s
95th percentile per-packet one-way delay: 86.620 ms
Loss rate: 1.14%
```

Run 9: Report of QUIC Cubic — Data Link



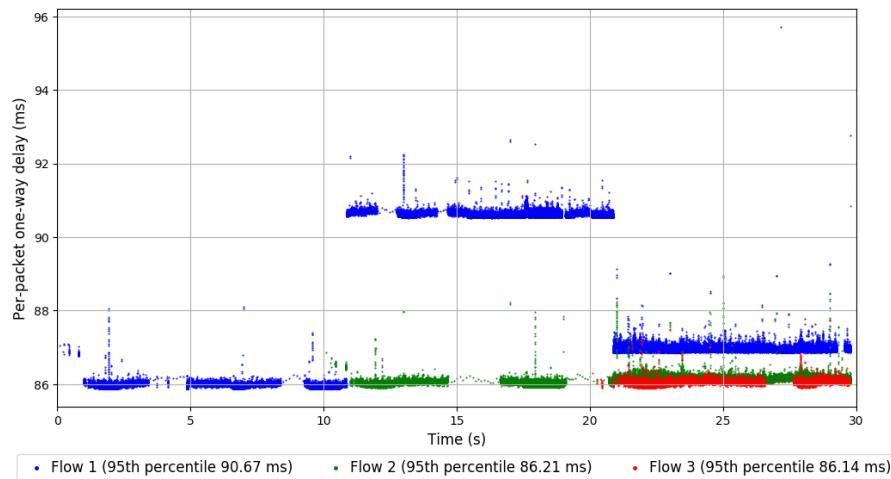
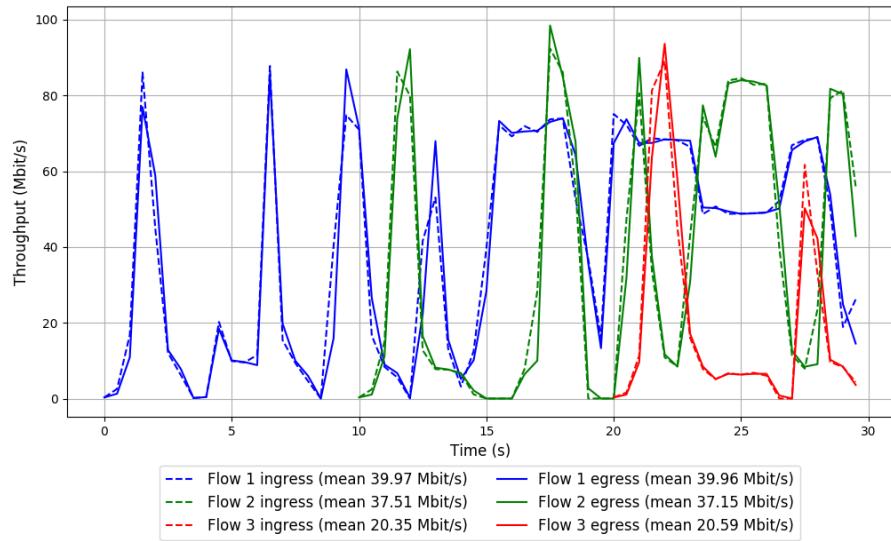
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-17 01:42:08

End at: 2018-02-17 01:42:38

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.28 Mbit/s
95th percentile per-packet one-way delay: 90.634 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 39.96 Mbit/s
95th percentile per-packet one-way delay: 90.668 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 86.213 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 86.140 ms
Loss rate: 0.51%
```

Run 10: Report of QUIC Cubic — Data Link

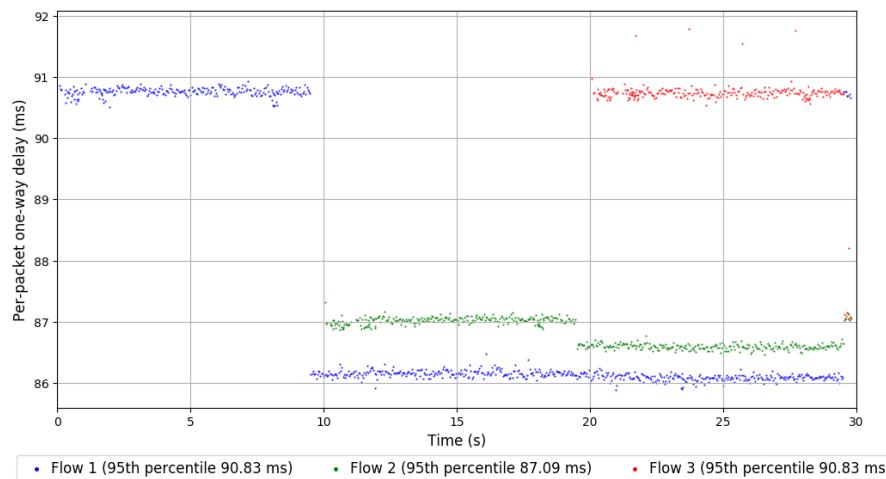
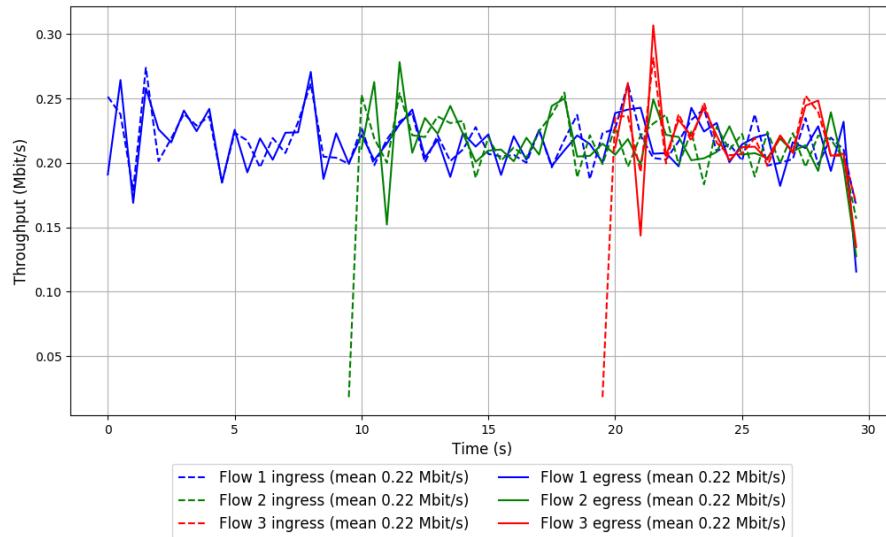


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 22:53:39
End at: 2018-02-16 22:54:09

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 90.812 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.825 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.091 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.829 ms
Loss rate: 1.50%
```

Run 1: Report of SCReAM — Data Link



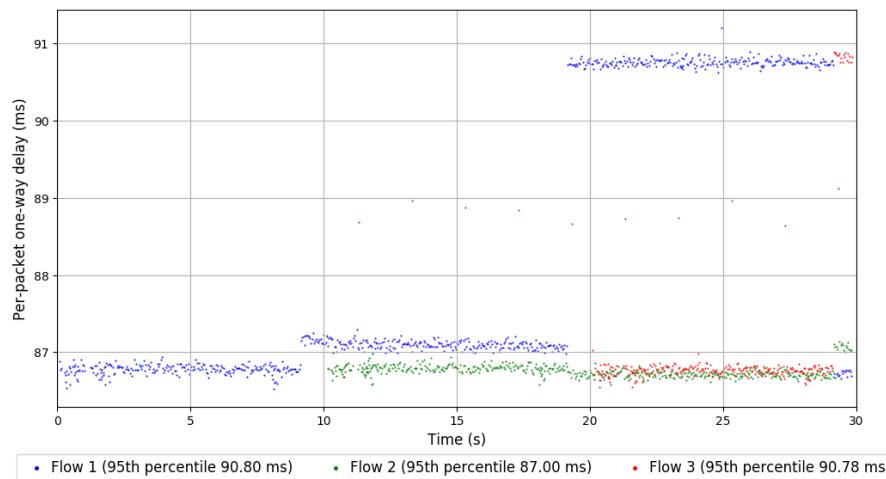
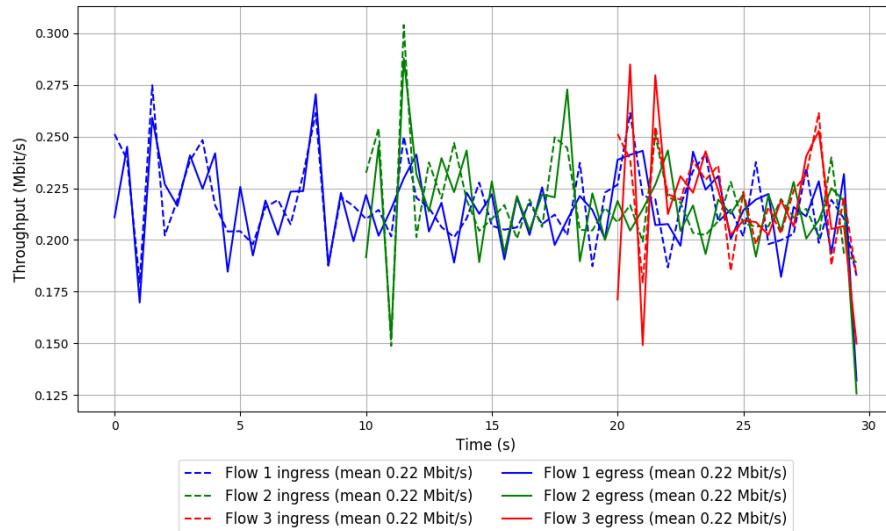
Run 2: Statistics of SCReAM

Start at: 2018-02-16 23:12:30

End at: 2018-02-16 23:13:00

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 90.783 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.804 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.004 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.783 ms
Loss rate: 1.84%
```

Run 2: Report of SCReAM — Data Link



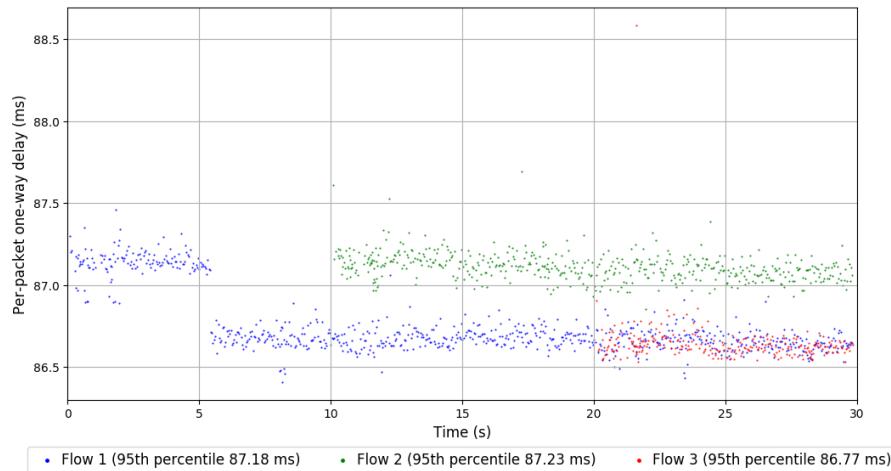
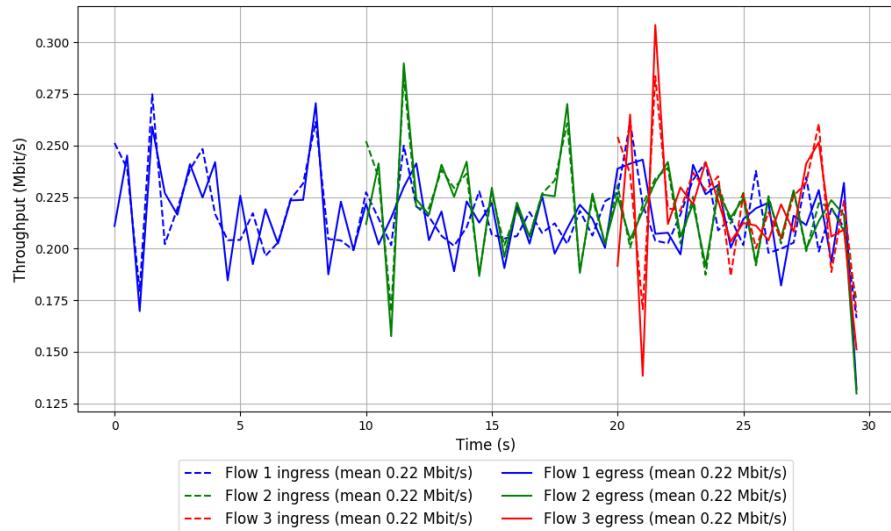
```
Run 3: Statistics of SCReAM
```

```
Start at: 2018-02-16 23:31:43
```

```
End at: 2018-02-16 23:32:13
```

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.203 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.177 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.235 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.767 ms
Loss rate: 1.50%
```

Run 3: Report of SCReAM — Data Link



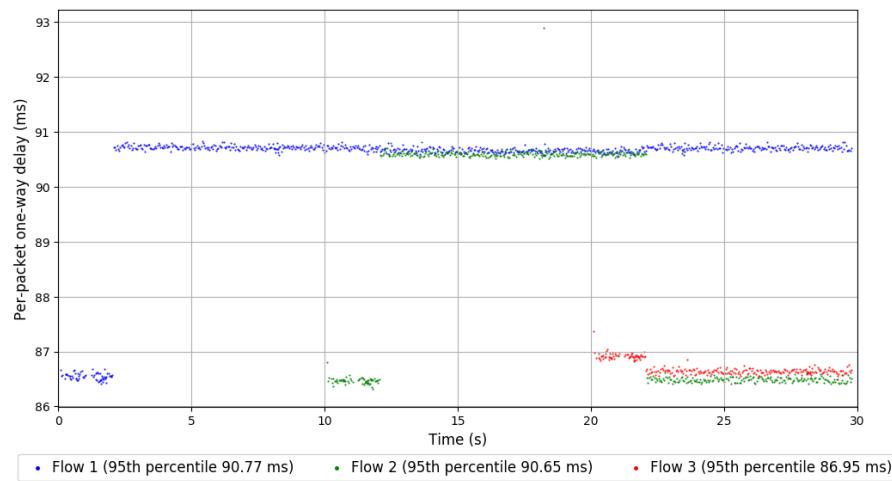
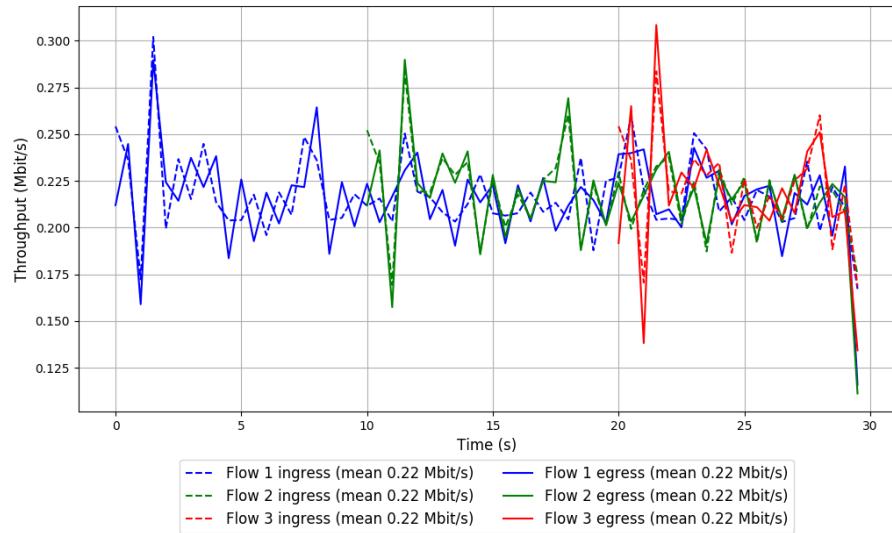
Run 4: Statistics of SCReAM

Start at: 2018-02-16 23:50:47

End at: 2018-02-16 23:51:17

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 90.753 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.768 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.646 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 1.87%
```

Run 4: Report of SCReAM — Data Link



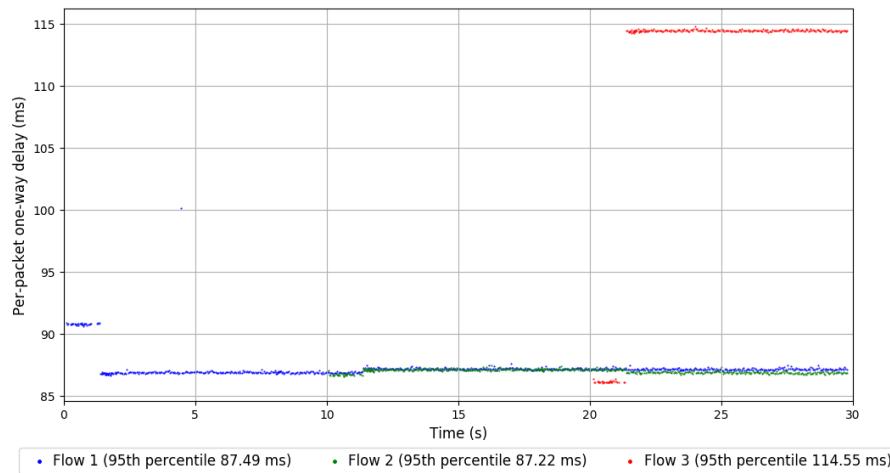
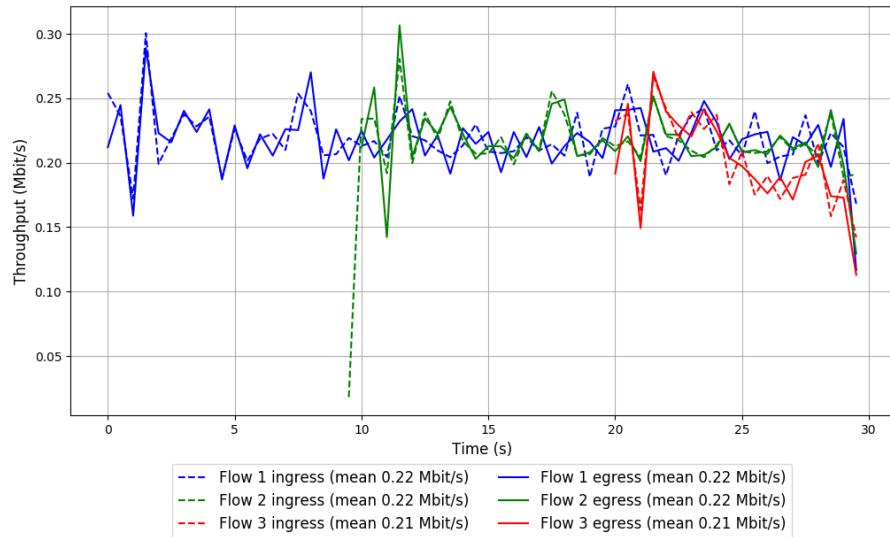
Run 5: Statistics of SCReAM

Start at: 2018-02-17 00:09:57

End at: 2018-02-17 00:10:28

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.449 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.489 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.223 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 114.548 ms
Loss rate: 1.74%
```

Run 5: Report of SCReAM — Data Link



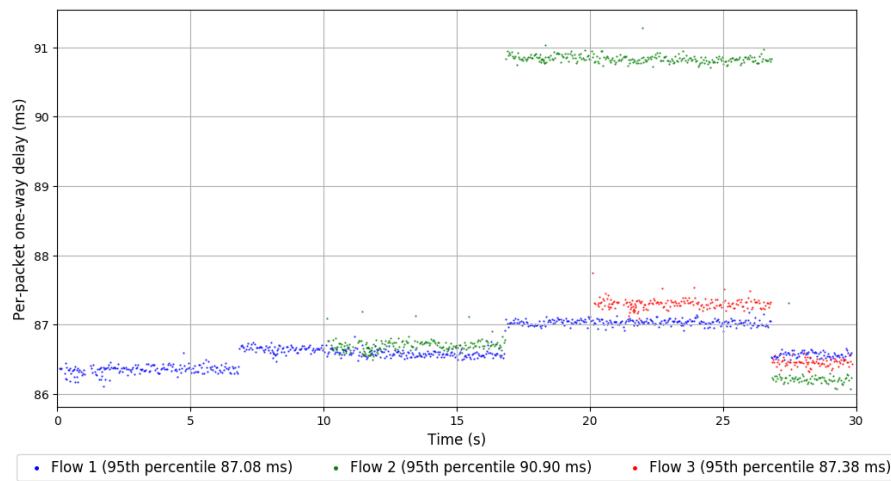
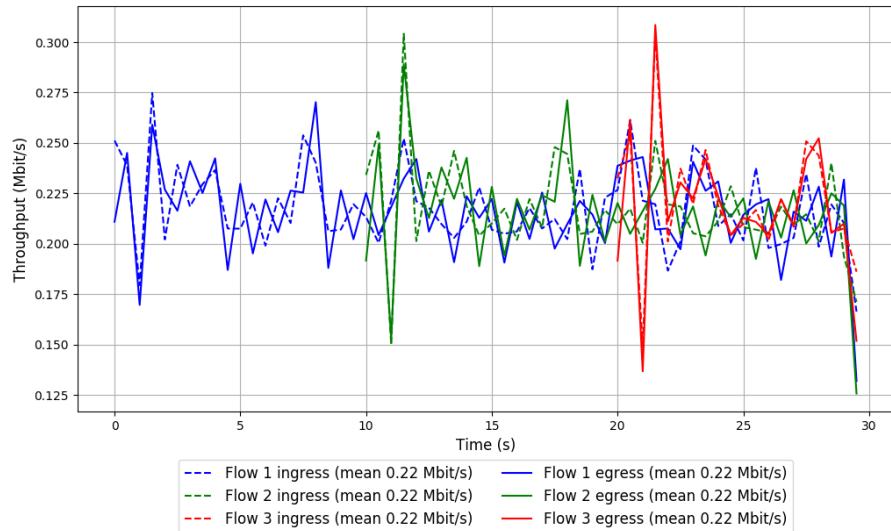
Run 6: Statistics of SCReAM

Start at: 2018-02-17 00:29:22

End at: 2018-02-17 00:29:52

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 90.860 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.078 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.904 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.381 ms
Loss rate: 1.50%
```

Run 6: Report of SCReAM — Data Link



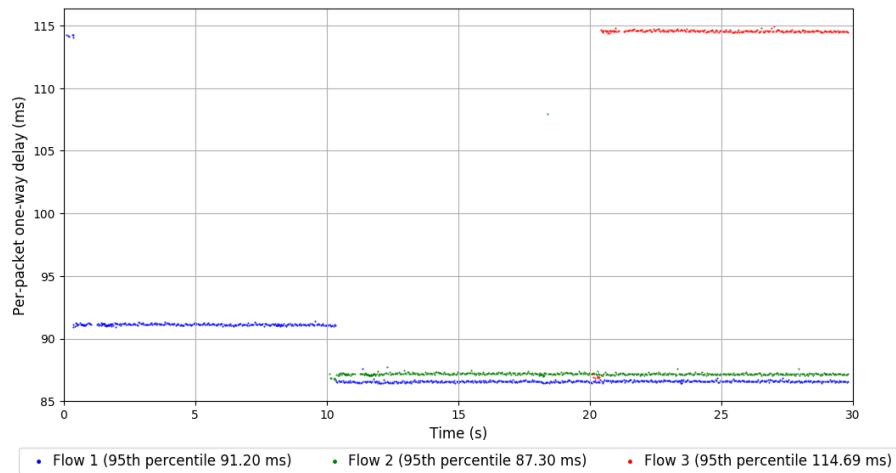
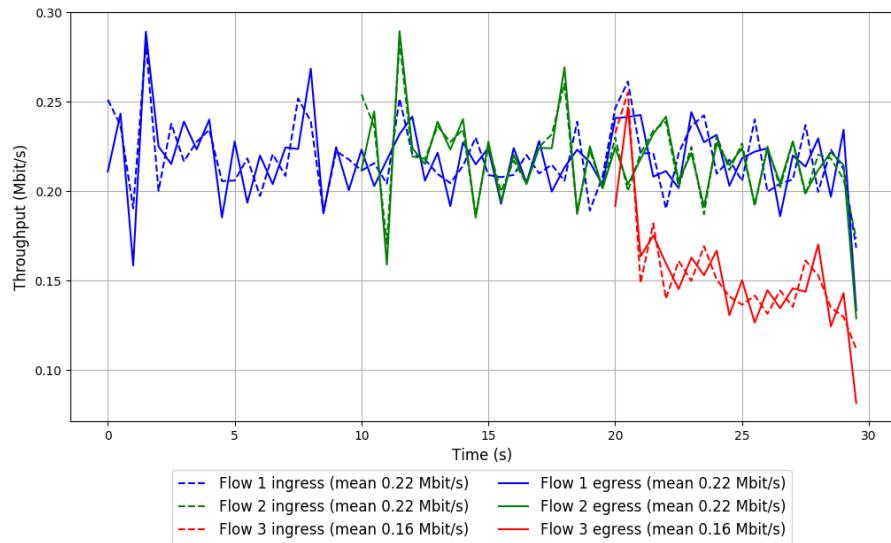
Run 7: Statistics of SCReAM

Start at: 2018-02-17 00:48:39

End at: 2018-02-17 00:49:09

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 114.594 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.198 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 114.687 ms
Loss rate: 1.61%
```

Run 7: Report of SCReAM — Data Link



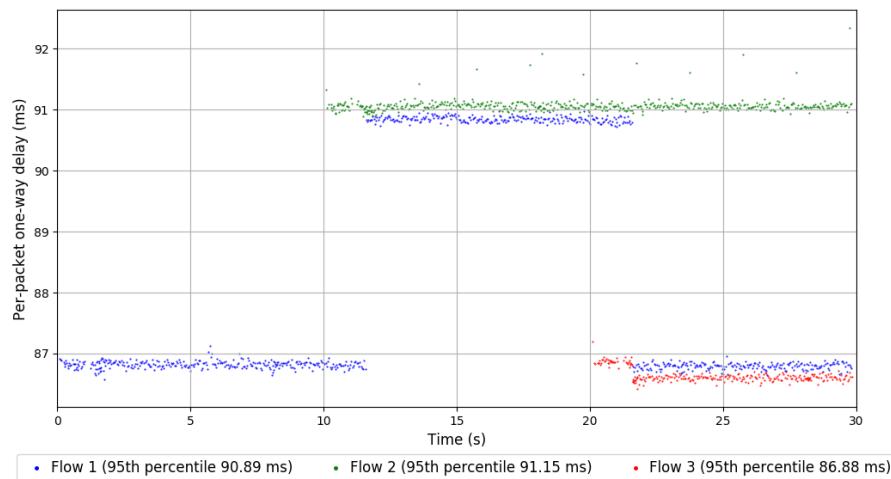
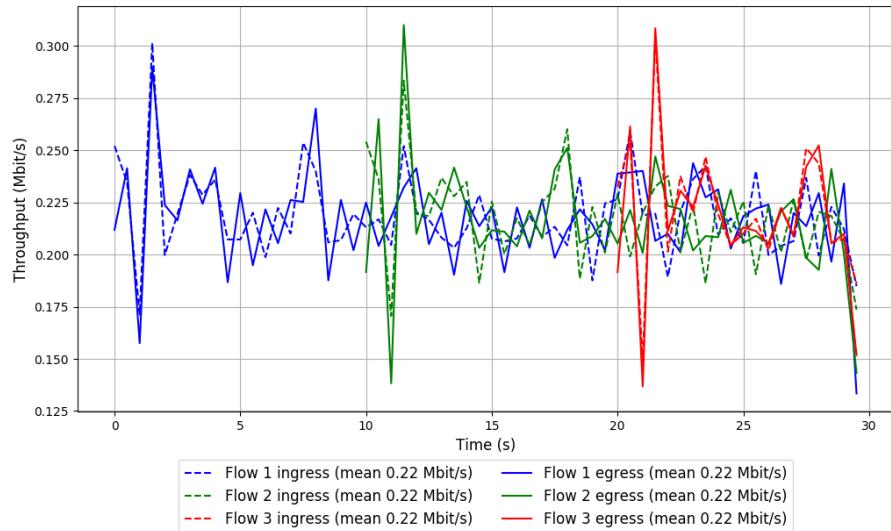
Run 8: Statistics of SCReAM

Start at: 2018-02-17 01:07:27

End at: 2018-02-17 01:07:57

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 91.104 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.892 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.148 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 1.50%
```

Run 8: Report of SCReAM — Data Link



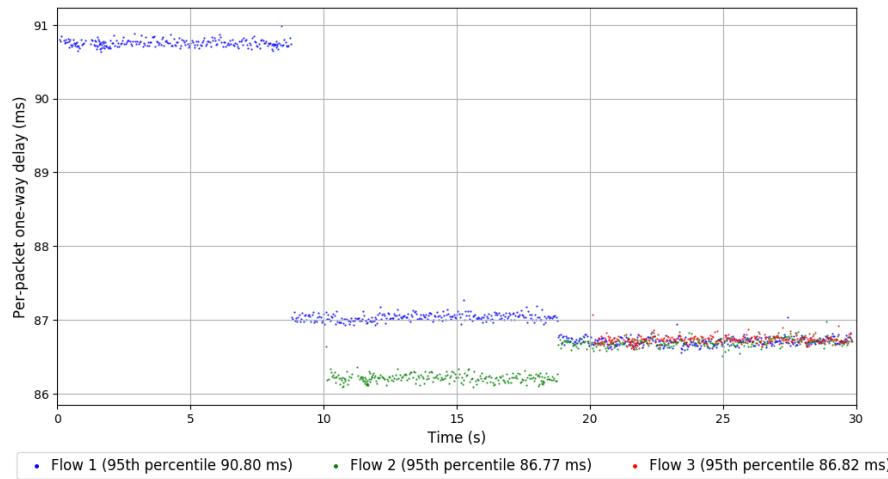
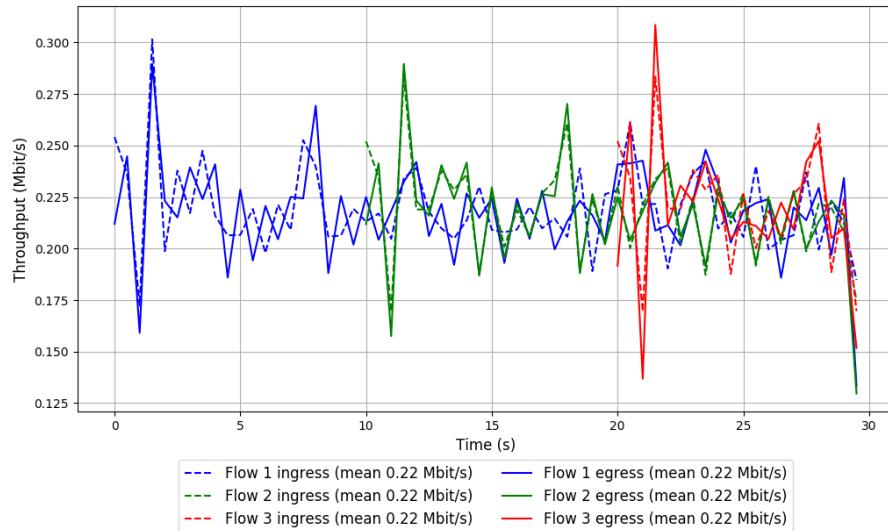
Run 9: Statistics of SCReAM

Start at: 2018-02-17 01:26:10

End at: 2018-02-17 01:26:40

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 90.771 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.795 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.768 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 1.50%
```

Run 9: Report of SCReAM — Data Link



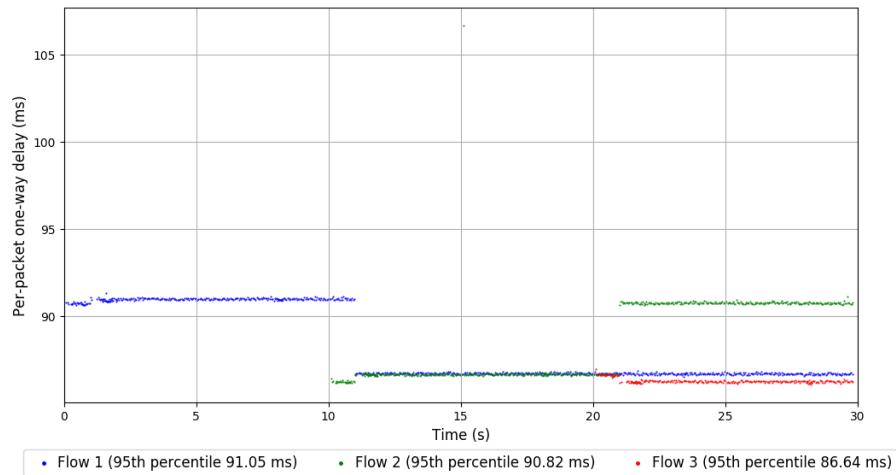
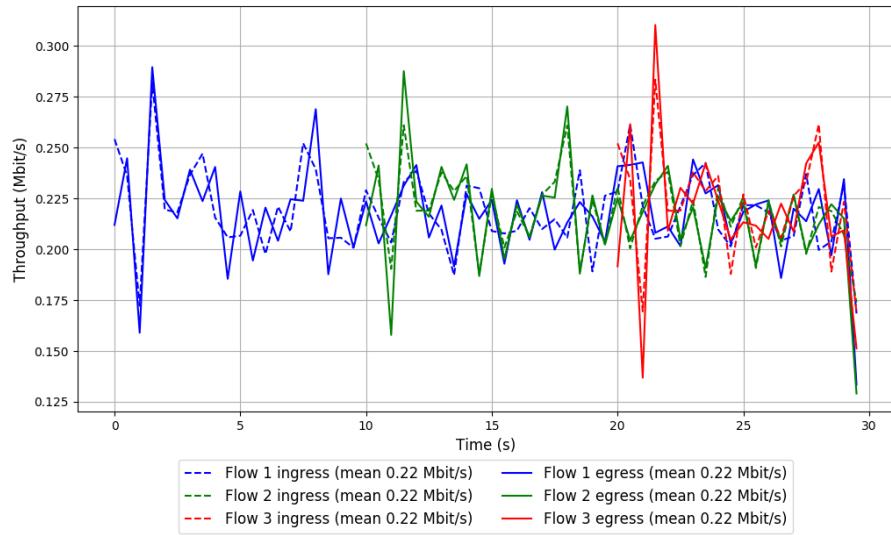
Run 10: Statistics of SCReAM

Start at: 2018-02-17 01:44:58

End at: 2018-02-17 01:45:28

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 91.024 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.048 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.823 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.645 ms
Loss rate: 1.50%
```

Run 10: Report of SCReAM — Data Link

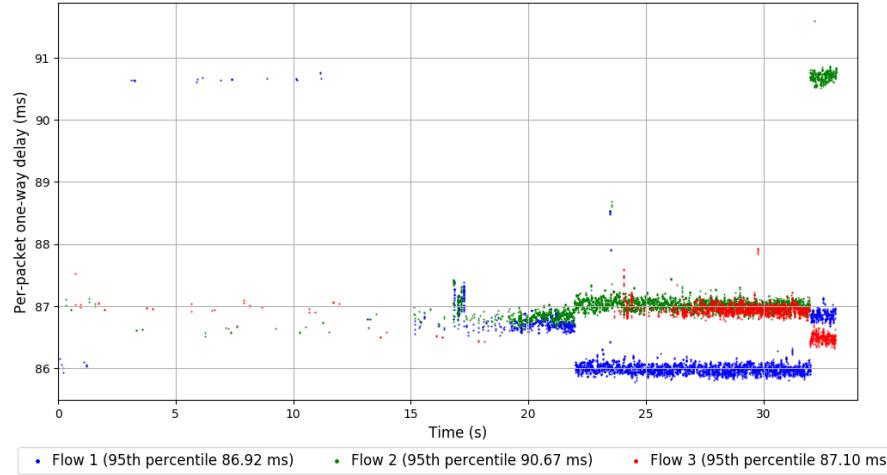
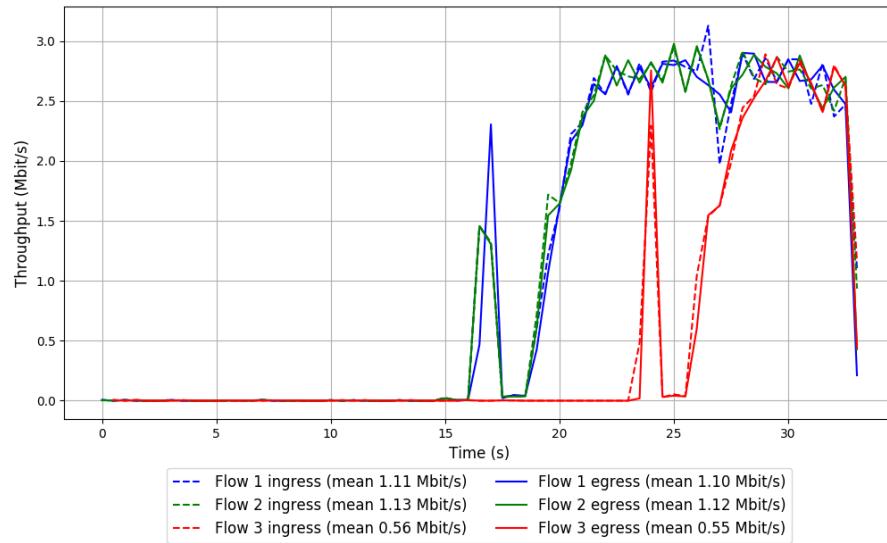


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-16 22:51:20
End at: 2018-02-16 22:51:50

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 87.187 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 86.917 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 90.675 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 87.098 ms
Loss rate: 3.17%
```

Run 1: Report of WebRTC media — Data Link

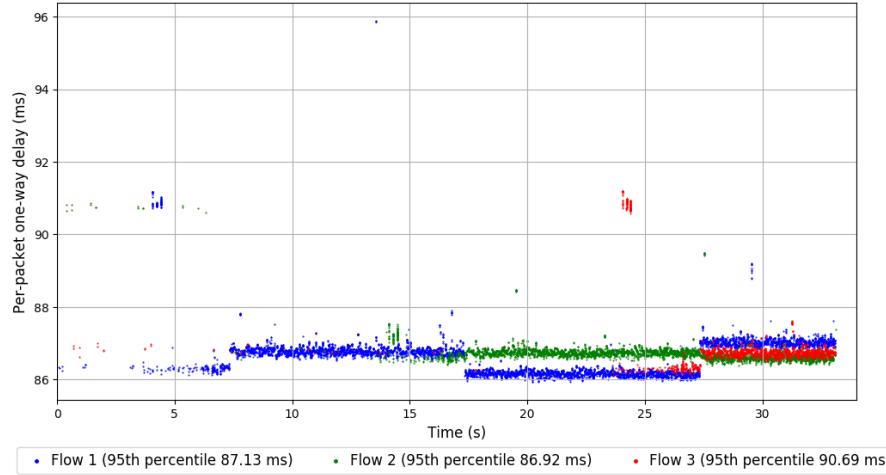
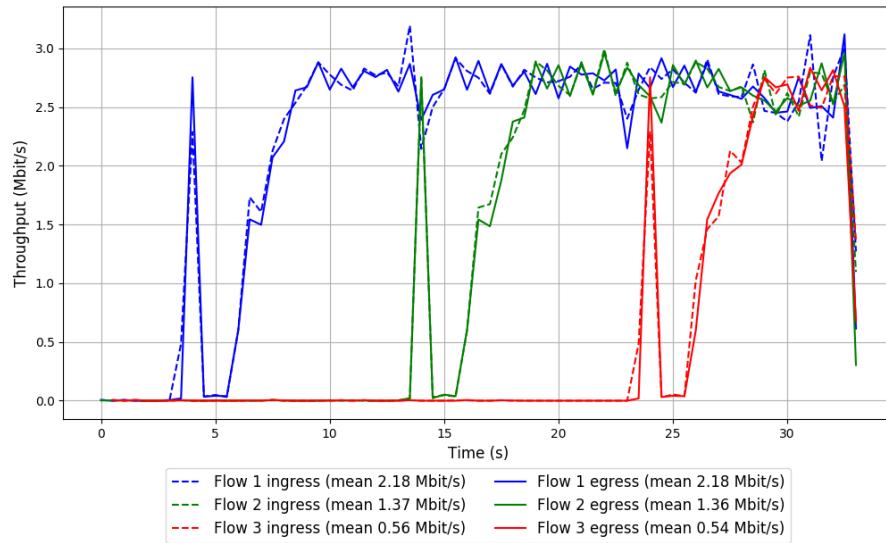


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-16 23:10:25
End at: 2018-02-16 23:10:55

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 87.112 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 87.128 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 86.920 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 90.689 ms
Loss rate: 3.13%
```

Run 2: Report of WebRTC media — Data Link

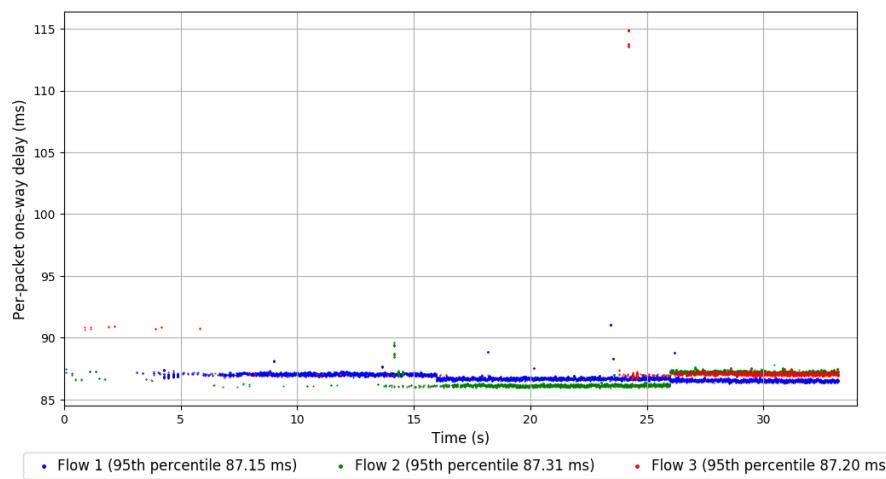
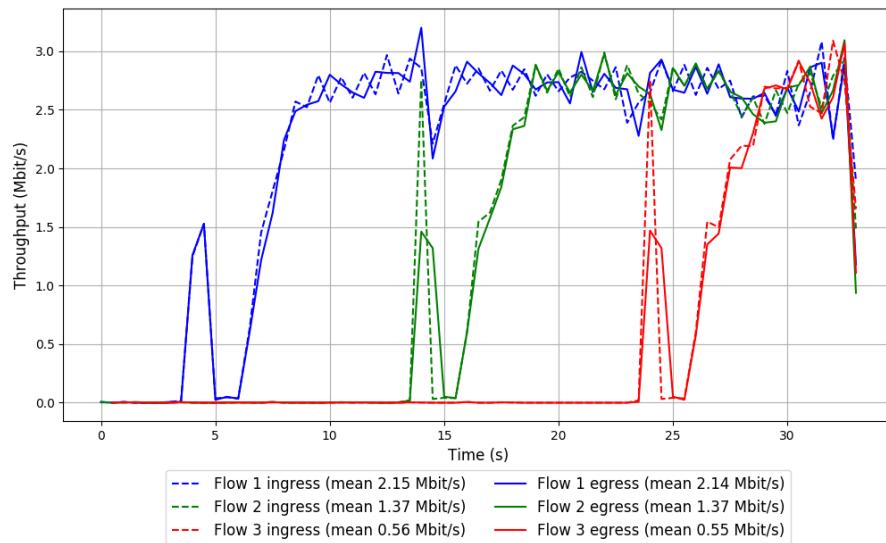


```
Run 3: Statistics of WebRTC media

Start at: 2018-02-16 23:29:36
End at: 2018-02-16 23:30:06

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 87.253 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 87.147 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 87.311 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 87.200 ms
Loss rate: 2.69%
```

Run 3: Report of WebRTC media — Data Link



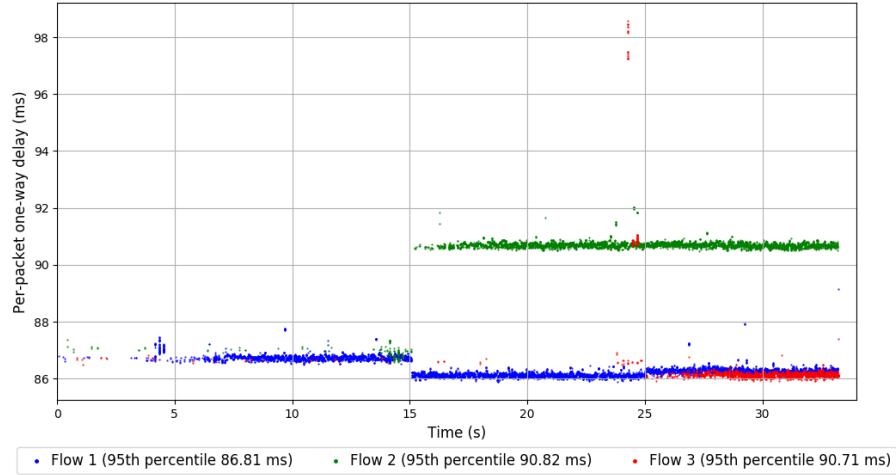
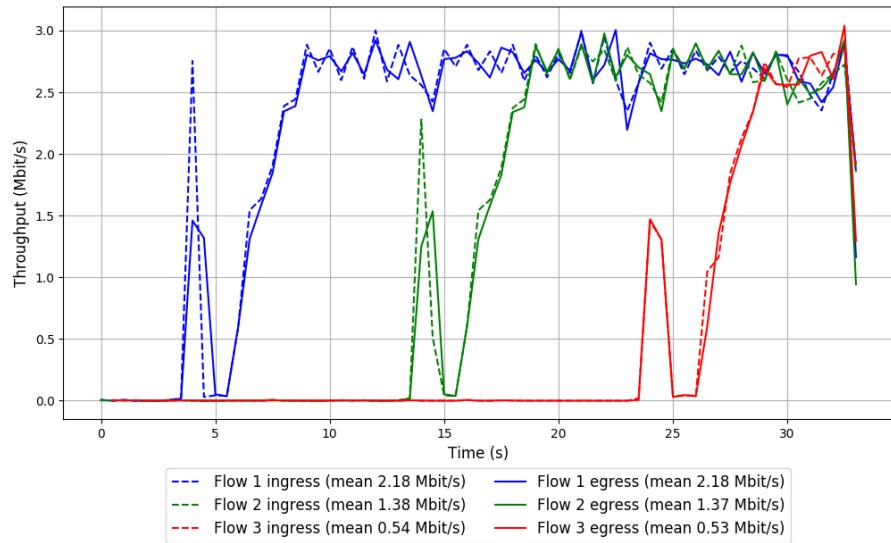
Run 4: Statistics of WebRTC media

Start at: 2018-02-16 23:48:37

End at: 2018-02-16 23:49:07

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 90.774 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 86.811 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 90.819 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 90.714 ms
Loss rate: 3.03%
```

Run 4: Report of WebRTC media — Data Link

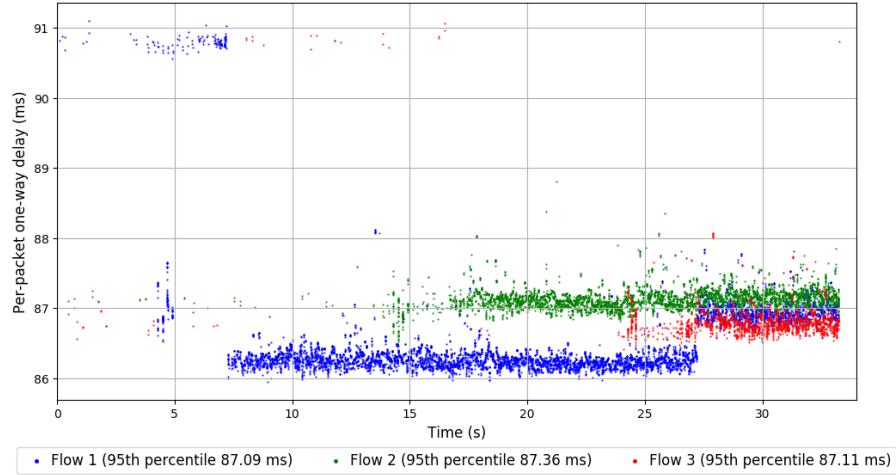
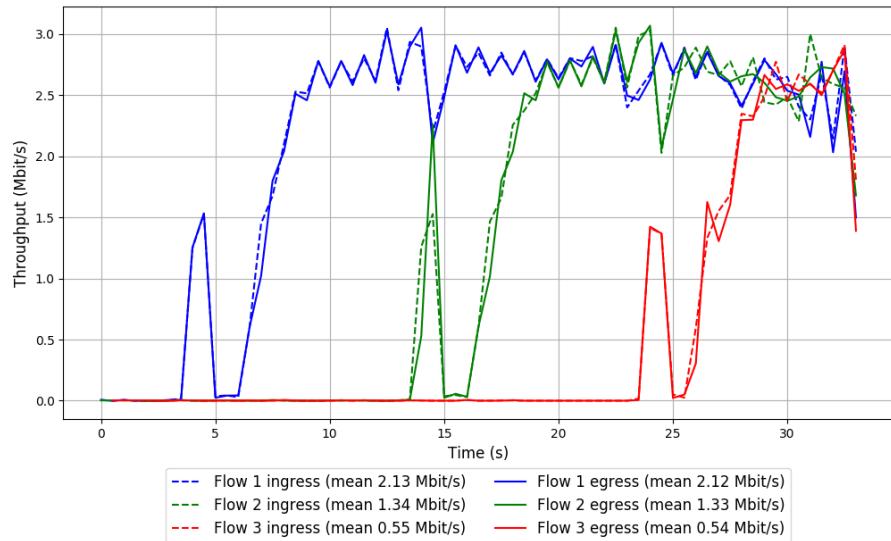


```
Run 5: Statistics of WebRTC media

Start at: 2018-02-17 00:07:45
End at: 2018-02-17 00:08:15

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 87.279 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 87.095 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 87.358 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 87.113 ms
Loss rate: 2.58%
```

Run 5: Report of WebRTC media — Data Link



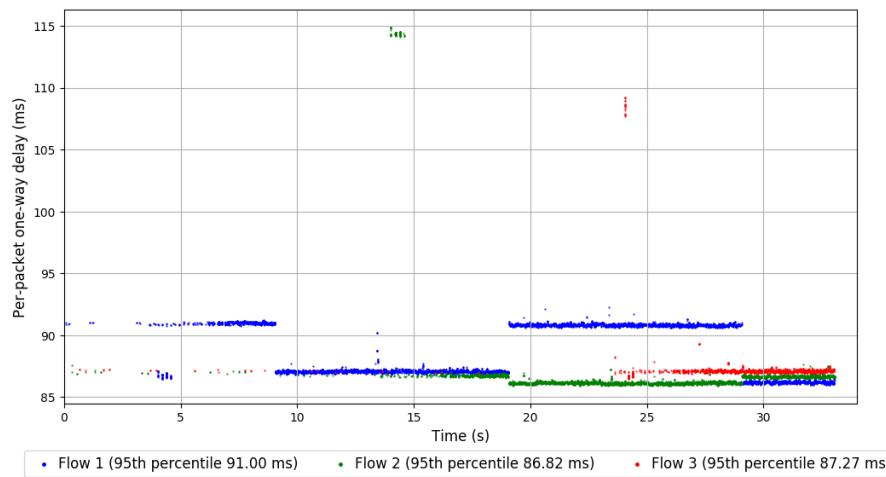
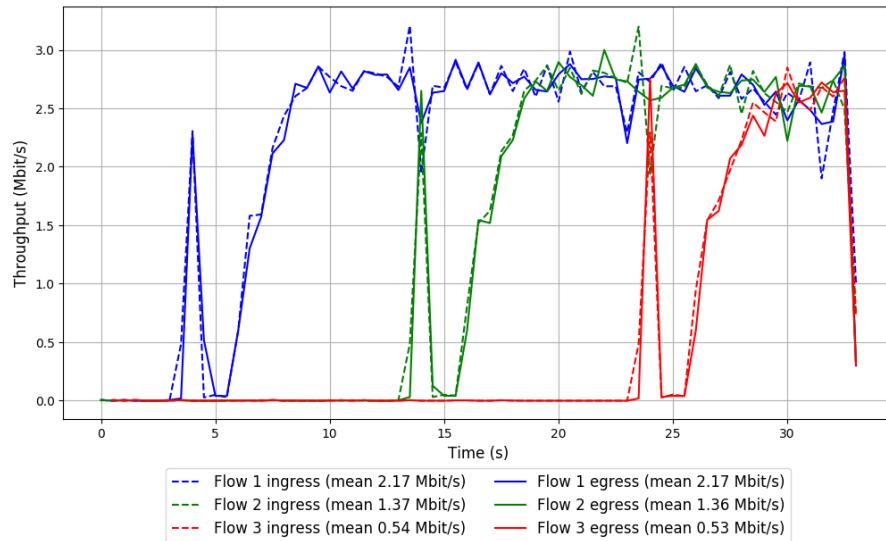
Run 6: Statistics of WebRTC media

Start at: 2018-02-17 00:27:13

End at: 2018-02-17 00:27:43

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 90.958 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 90.997 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 86.823 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 87.272 ms
Loss rate: 2.66%
```

Run 6: Report of WebRTC media — Data Link



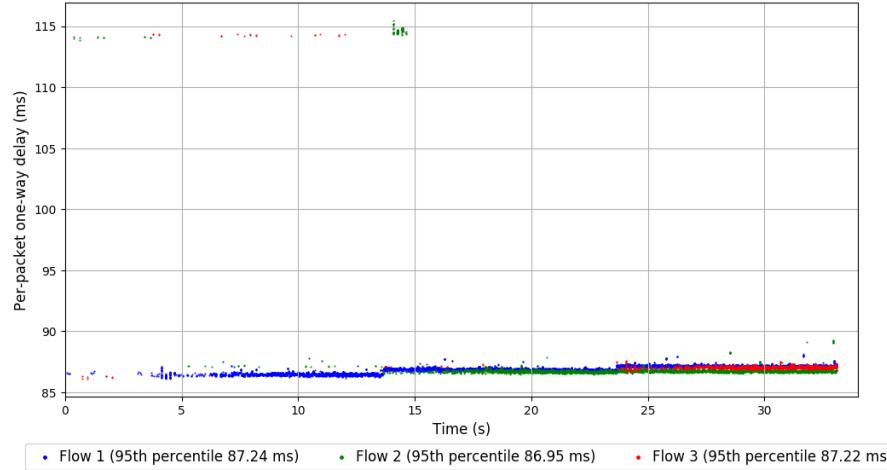
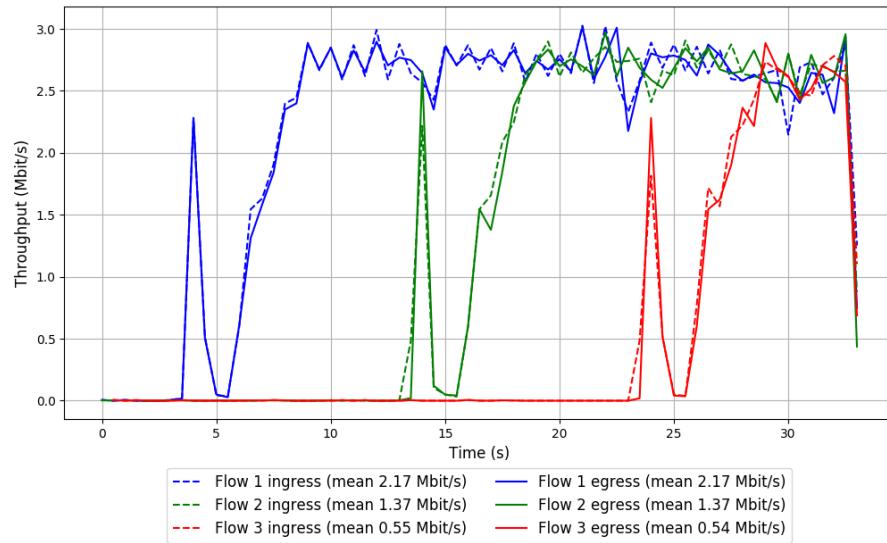
Run 7: Statistics of WebRTC media

Start at: 2018-02-17 00:46:29

End at: 2018-02-17 00:46:59

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 87.226 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 87.240 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 86.954 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 87.218 ms
Loss rate: 3.06%
```

Run 7: Report of WebRTC media — Data Link



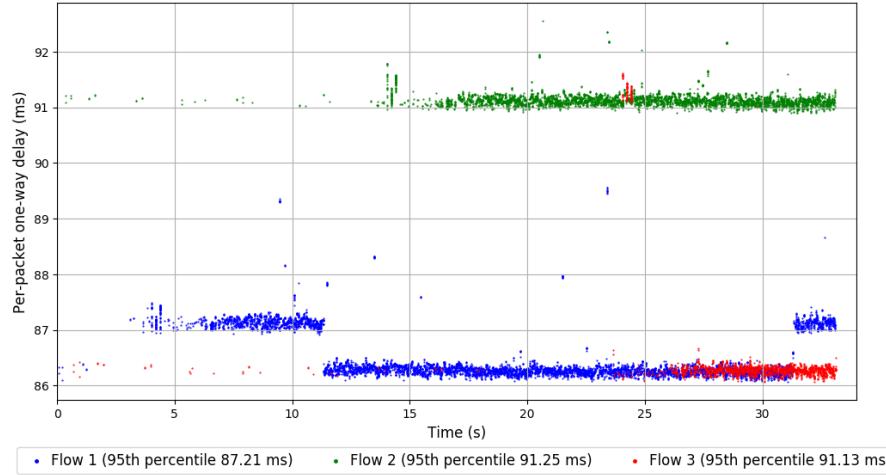
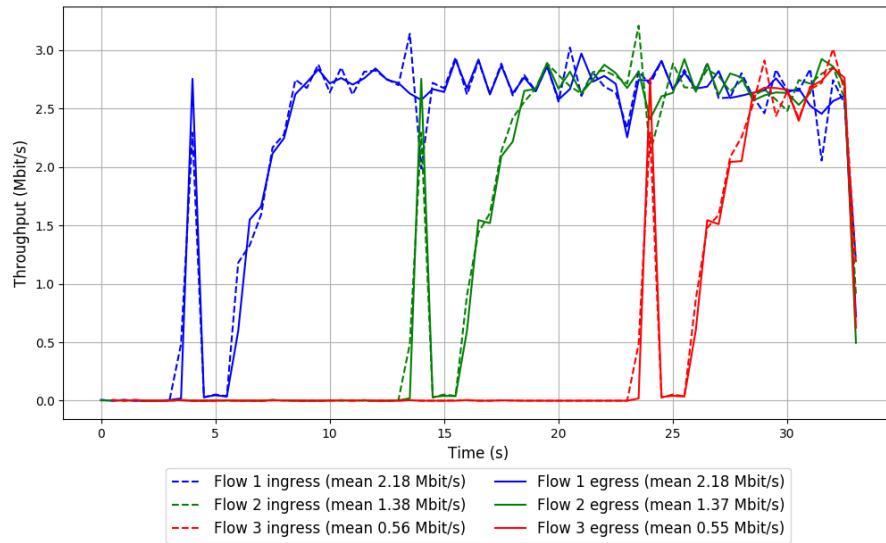
Run 8: Statistics of WebRTC media

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

End at: 2018-02-17 01:05:51

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 91.202 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 87.209 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 91.254 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 91.128 ms
Loss rate: 2.76%
```

Run 8: Report of WebRTC media — Data Link

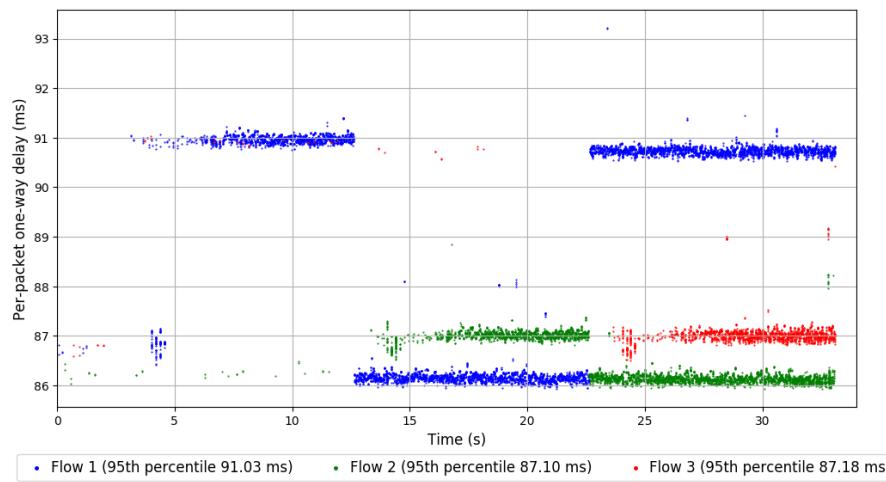
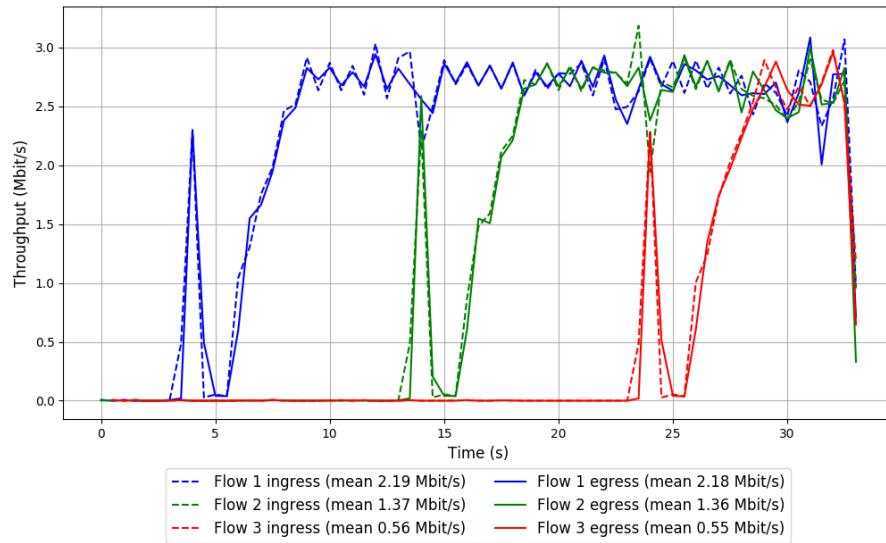


```
Run 9: Statistics of WebRTC media

Start at: 2018-02-17 01:24:10
End at: 2018-02-17 01:24:40

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 90.987 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 91.028 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 87.103 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 87.184 ms
Loss rate: 2.72%
```

Run 9: Report of WebRTC media — Data Link

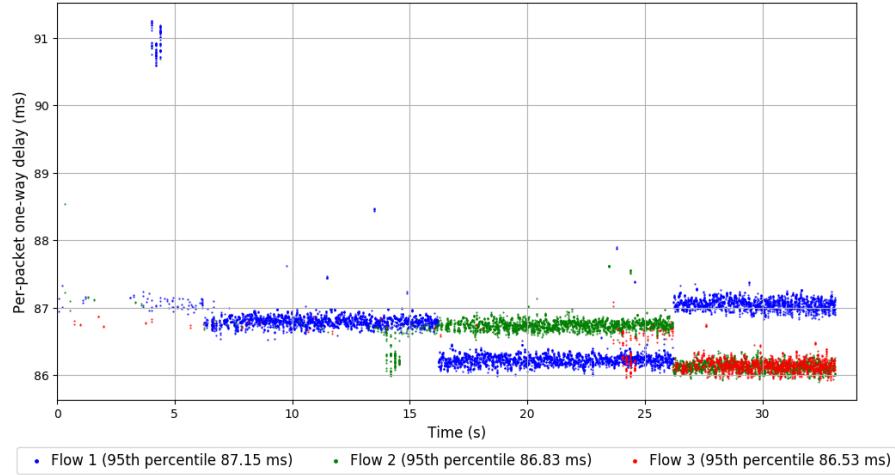
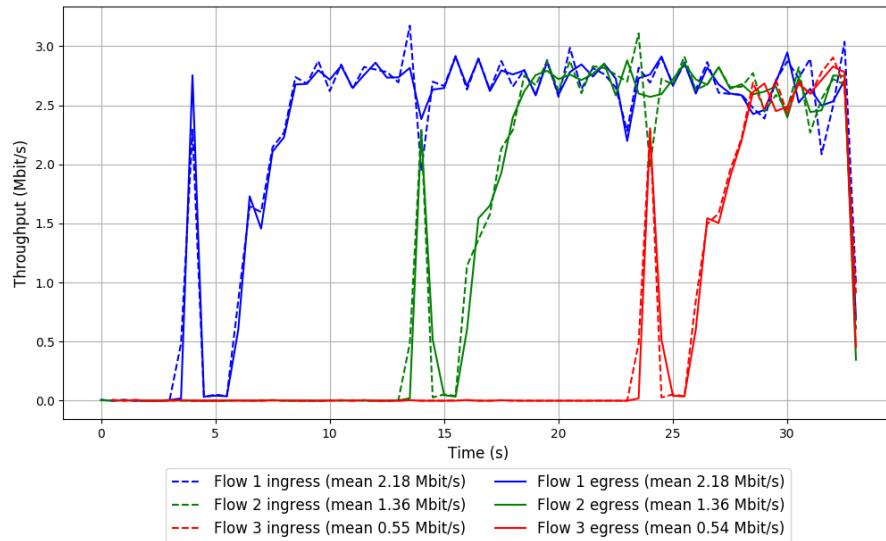


```
Run 10: Statistics of WebRTC media

Start at: 2018-02-17 01:42:56
End at: 2018-02-17 01:43:26

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 87.106 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 87.153 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 86.531 ms
Loss rate: 2.53%
```

Run 10: Report of WebRTC media — Data Link

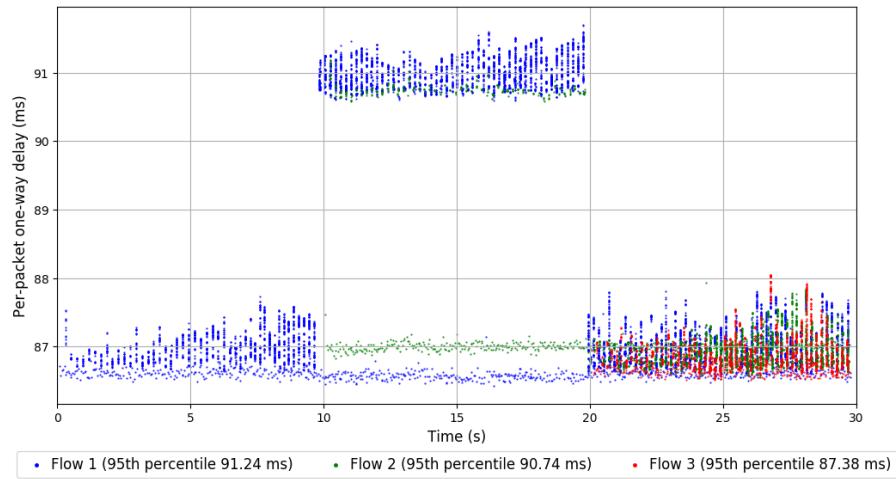
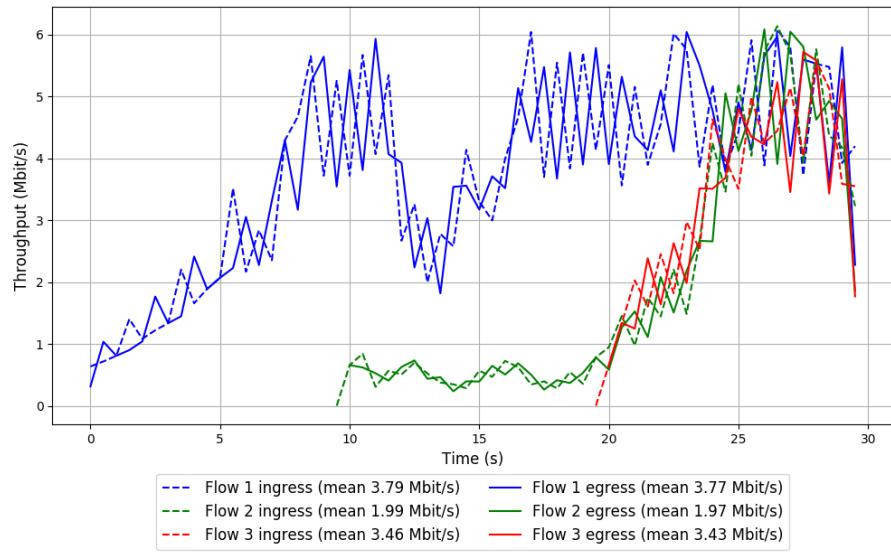


```
Run 1: Statistics of Sprout

Start at: 2018-02-16 22:59:49
End at: 2018-02-16 23:00:19

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 91.158 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 91.239 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 90.738 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 87.379 ms
Loss rate: 2.61%
```

Run 1: Report of Sprout — Data Link



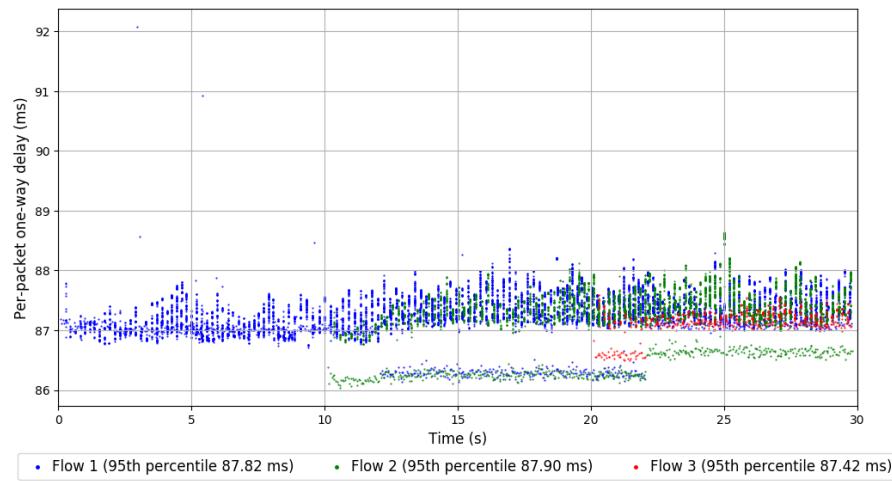
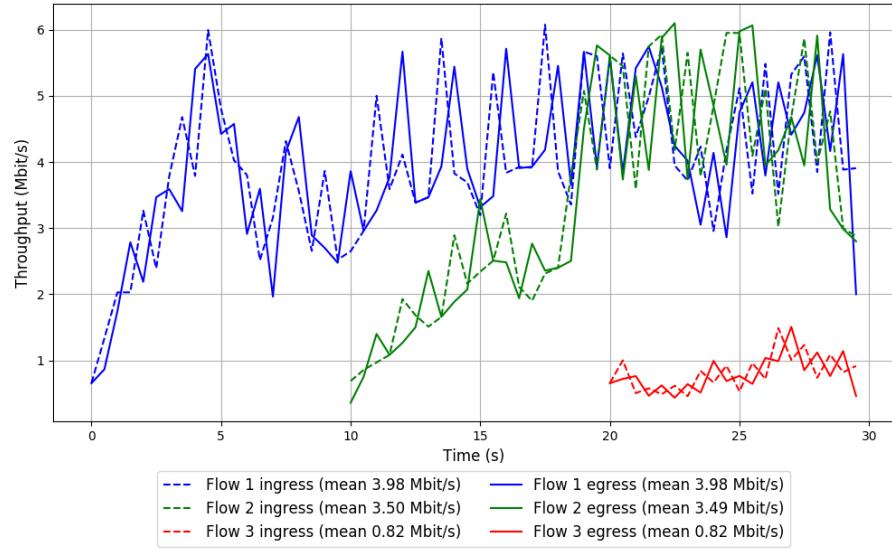
Run 2: Statistics of Sprout

Start at: 2018-02-16 23:18:37

End at: 2018-02-16 23:19:07

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 87.817 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 87.897 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 87.419 ms
Loss rate: 2.82%
```

Run 2: Report of Sprout — Data Link



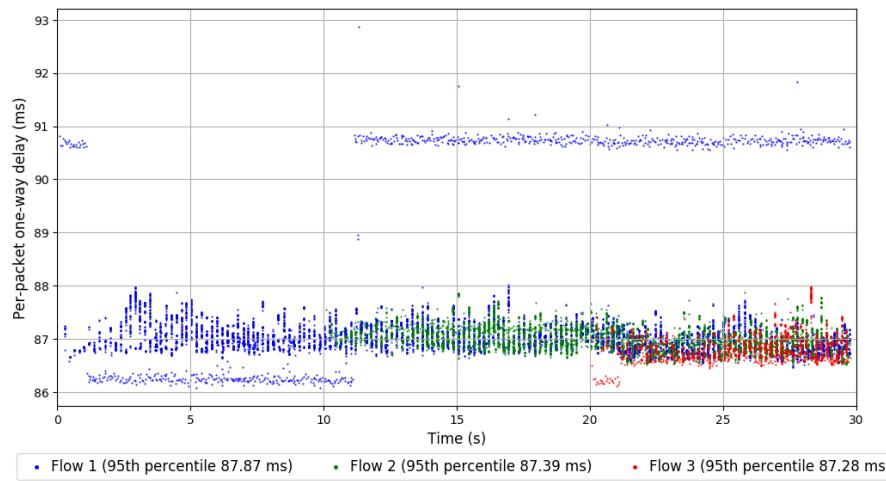
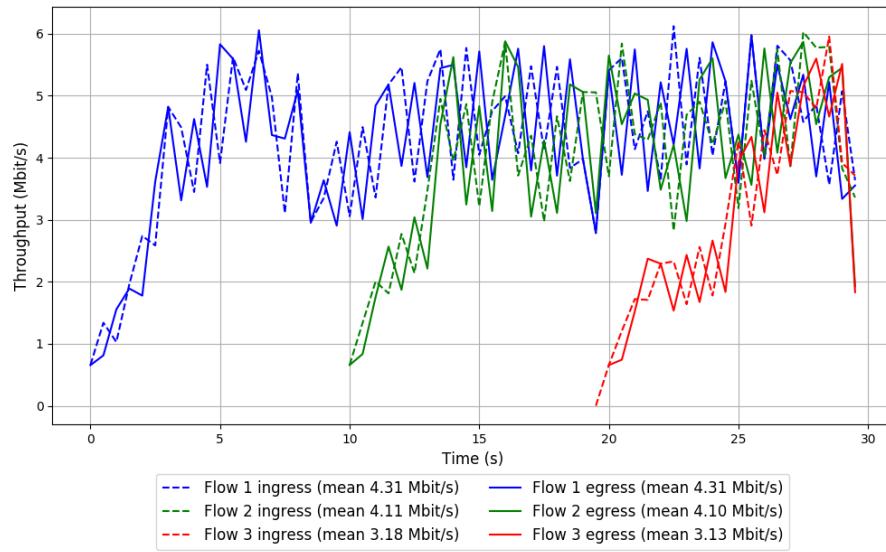
Run 3: Statistics of Sprout

Start at: 2018-02-16 23:37:58

End at: 2018-02-16 23:38:28

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 87.579 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 87.868 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 87.393 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 87.282 ms
Loss rate: 3.01%
```

Run 3: Report of Sprout — Data Link



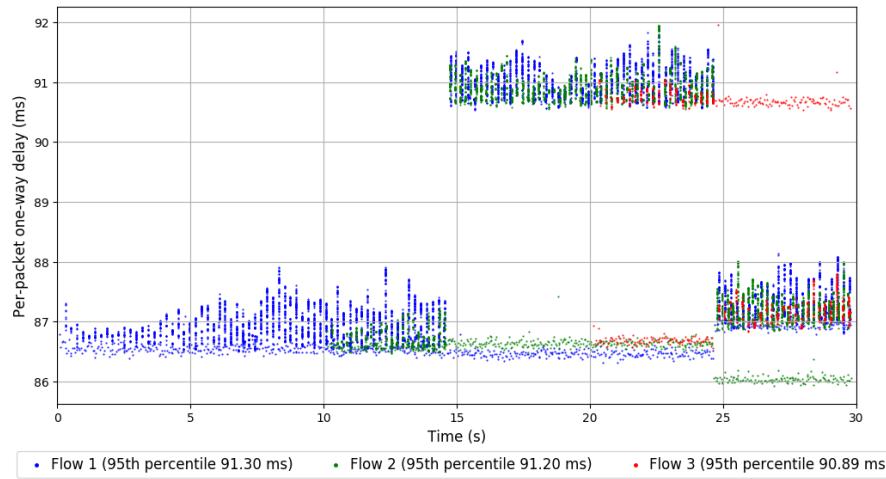
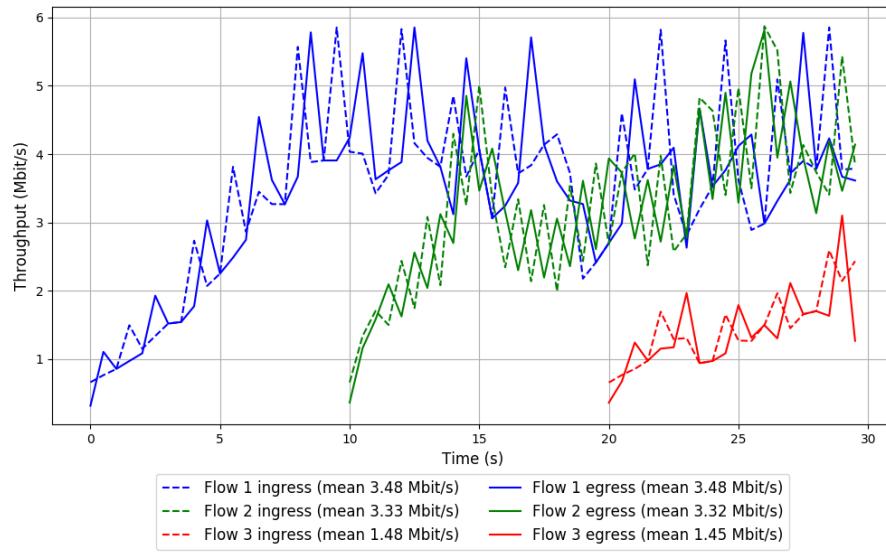
Run 4: Statistics of Sprout

Start at: 2018-02-16 23:57:04

End at: 2018-02-16 23:57:34

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 91.248 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 91.300 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 91.201 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 90.885 ms
Loss rate: 4.03%
```

Run 4: Report of Sprout — Data Link



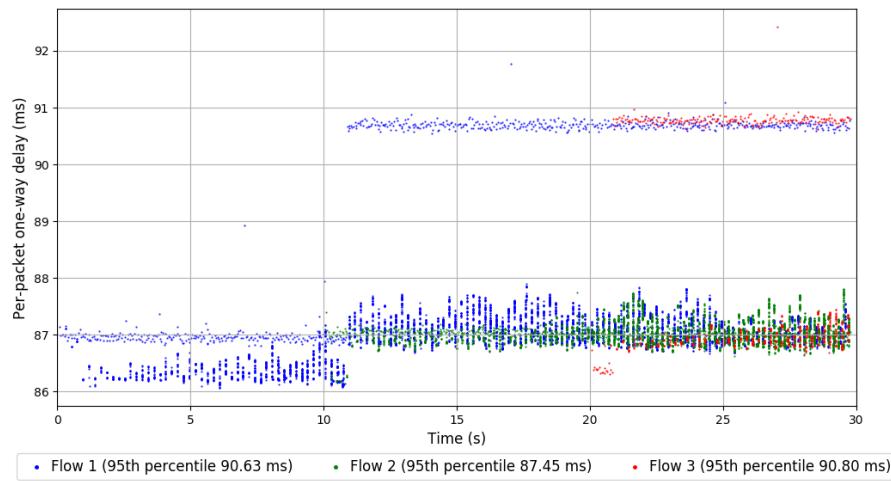
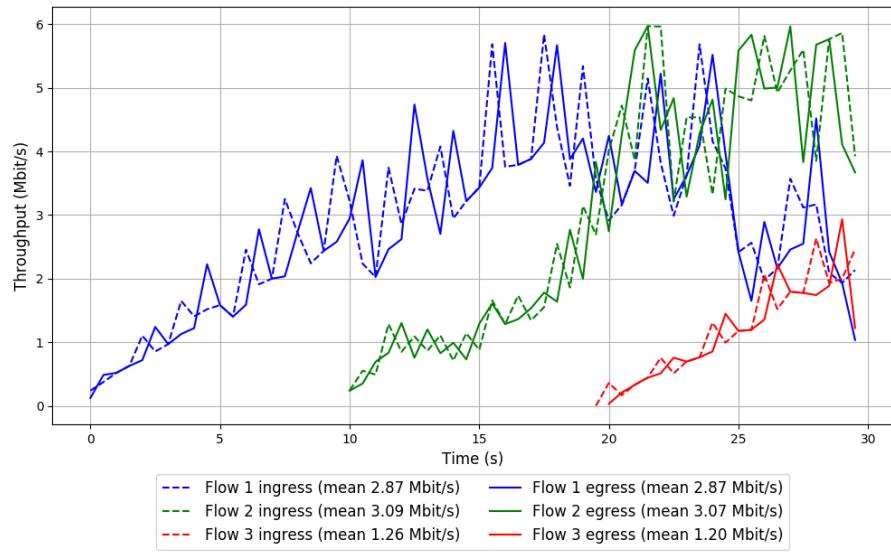
Run 5: Statistics of Sprout

Start at: 2018-02-17 00:16:08

End at: 2018-02-17 00:16:38

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 87.704 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 90.626 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 87.453 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 90.800 ms
Loss rate: 6.13%
```

Run 5: Report of Sprout — Data Link



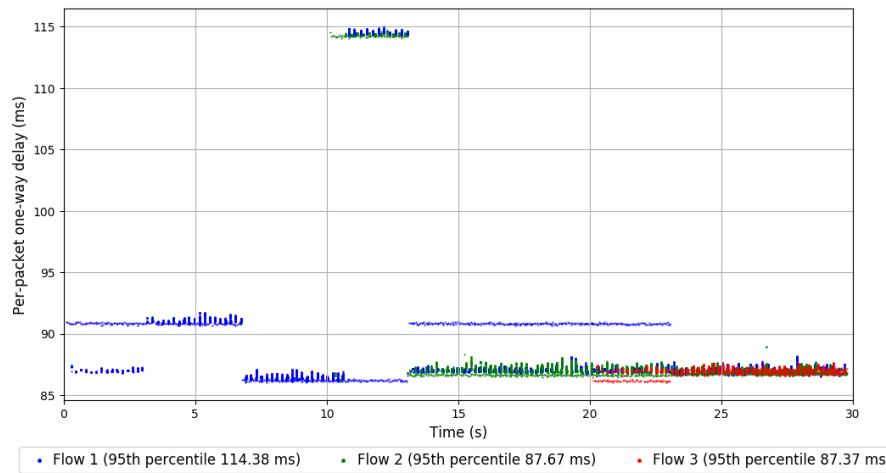
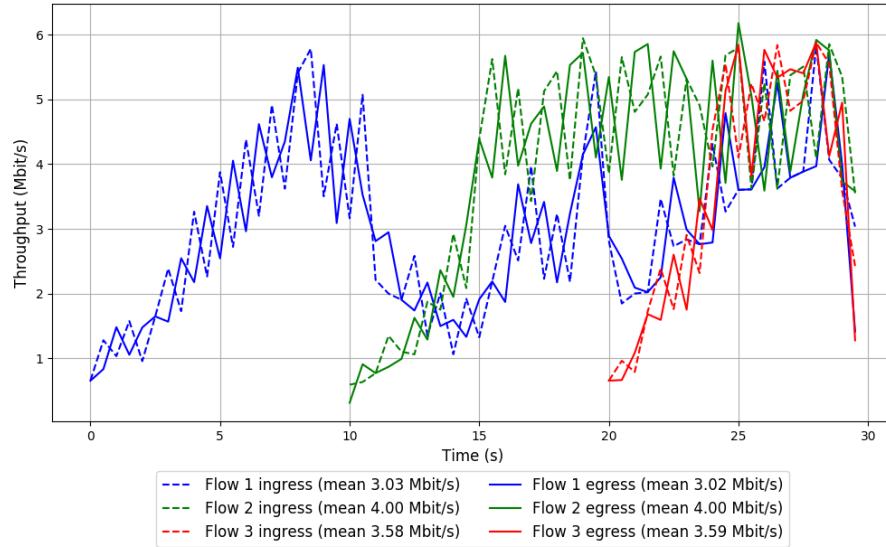
Run 6: Statistics of Sprout

Start at: 2018-02-17 00:35:36

End at: 2018-02-17 00:36:06

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 91.268 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 114.377 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 87.675 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 87.372 ms
Loss rate: 1.73%
```

Run 6: Report of Sprout — Data Link



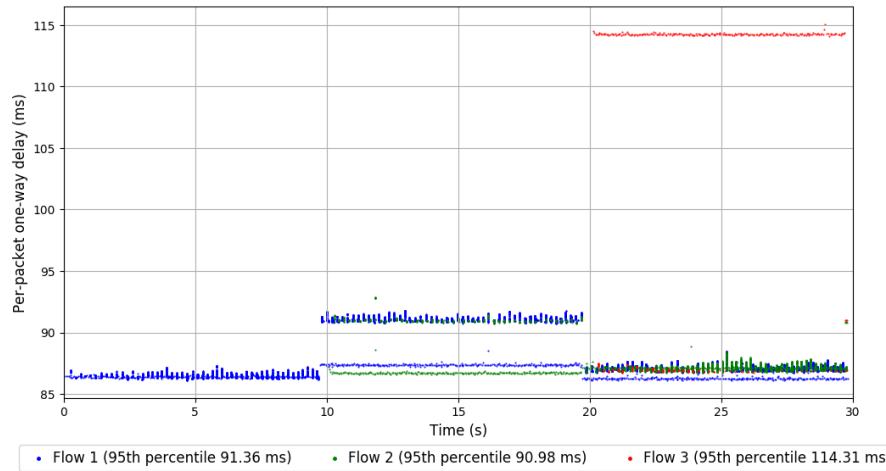
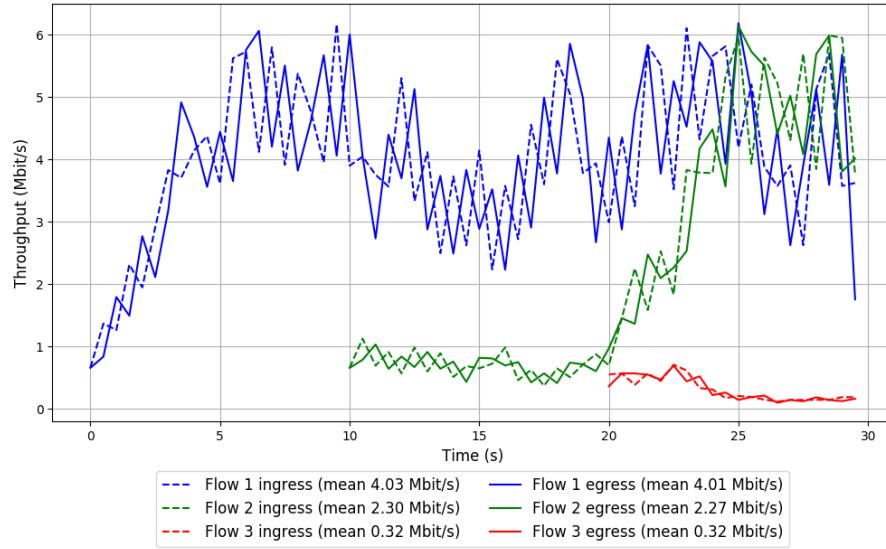
Run 7: Statistics of Sprout

Start at: 2018-02-17 00:54:39

End at: 2018-02-17 00:55:09

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 91.359 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 91.357 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 90.981 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 114.313 ms
Loss rate: 1.48%
```

Run 7: Report of Sprout — Data Link



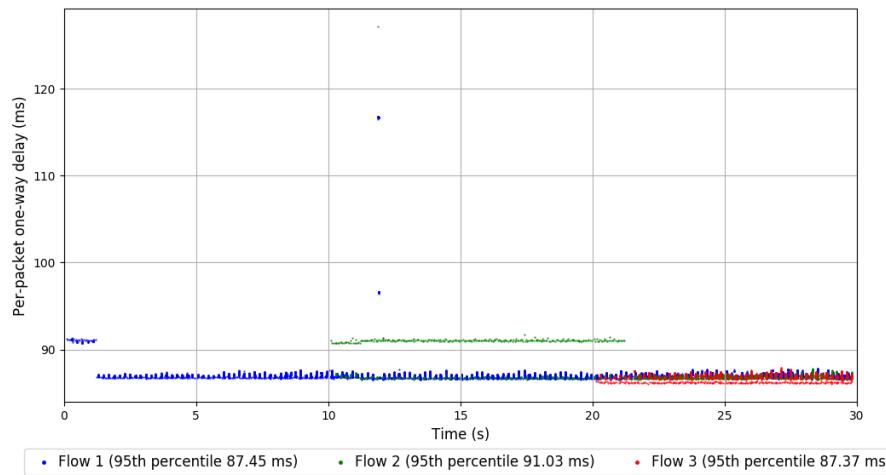
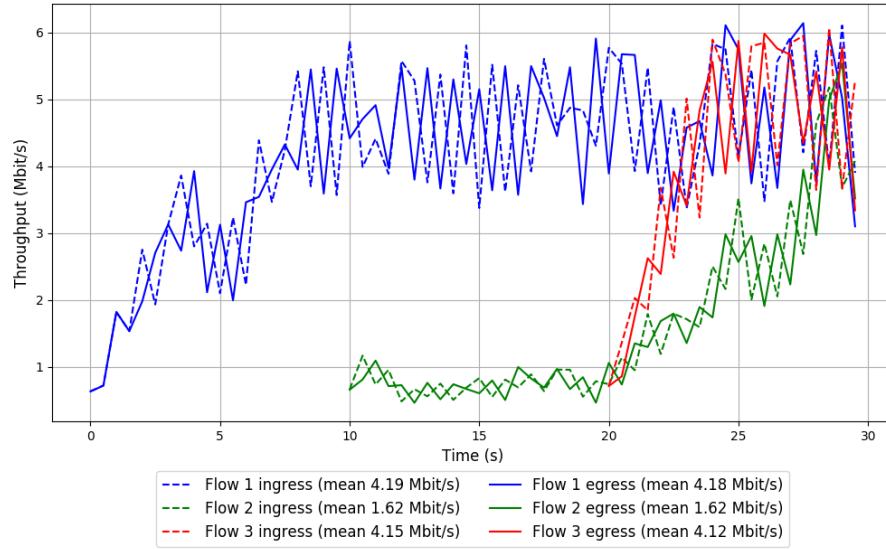
Run 8: Statistics of Sprout

Start at: 2018-02-17 01:13:38

End at: 2018-02-17 01:14:08

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 87.484 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 87.451 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 91.030 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 87.374 ms
Loss rate: 2.38%
```

Run 8: Report of Sprout — Data Link



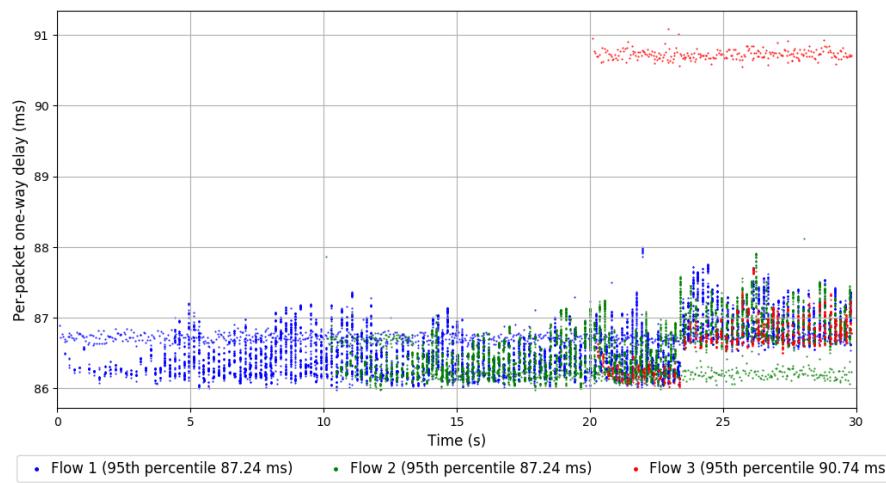
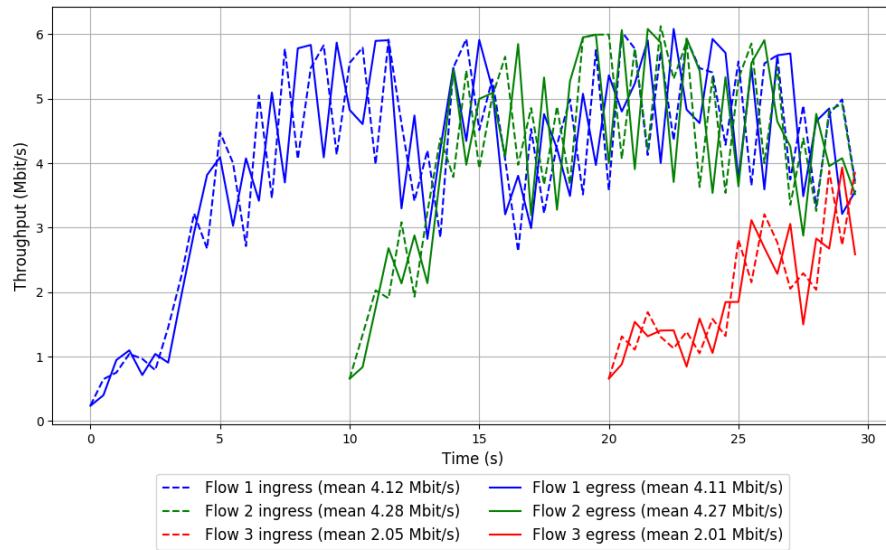
Run 9: Statistics of Sprout

Start at: 2018-02-17 01:32:16

End at: 2018-02-17 01:32:46

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 87.285 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 87.237 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 87.236 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 90.741 ms
Loss rate: 3.18%
```

Run 9: Report of Sprout — Data Link



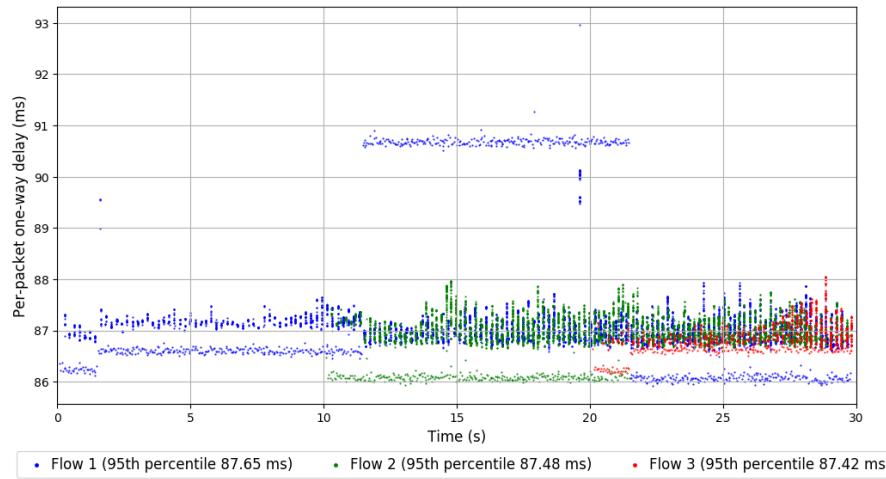
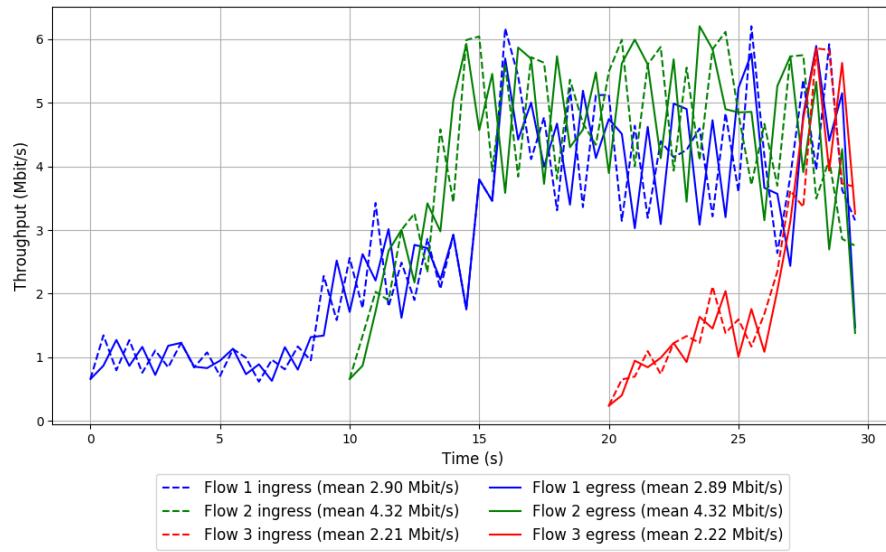
Run 10: Statistics of Sprout

Start at: 2018-02-17 01:51:07

End at: 2018-02-17 01:51:37

```
# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 87.528 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 87.648 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 87.477 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 87.425 ms
Loss rate: 0.98%
```

Run 10: Report of Sprout — Data Link

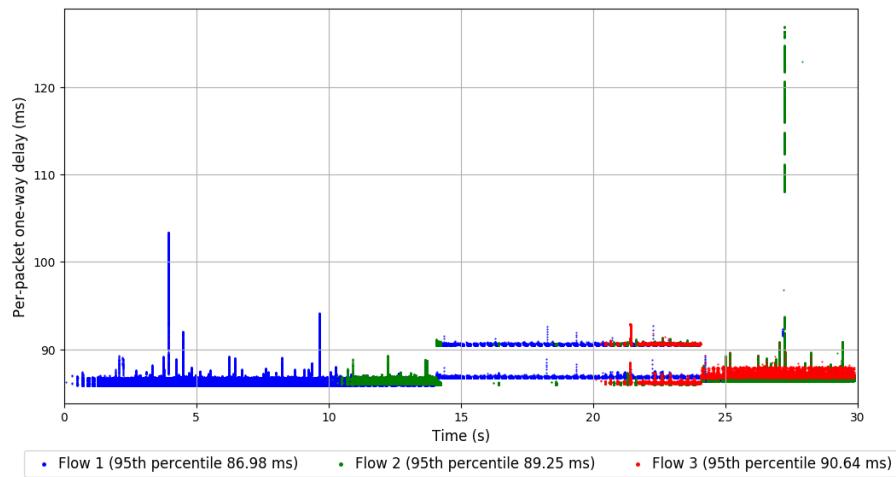
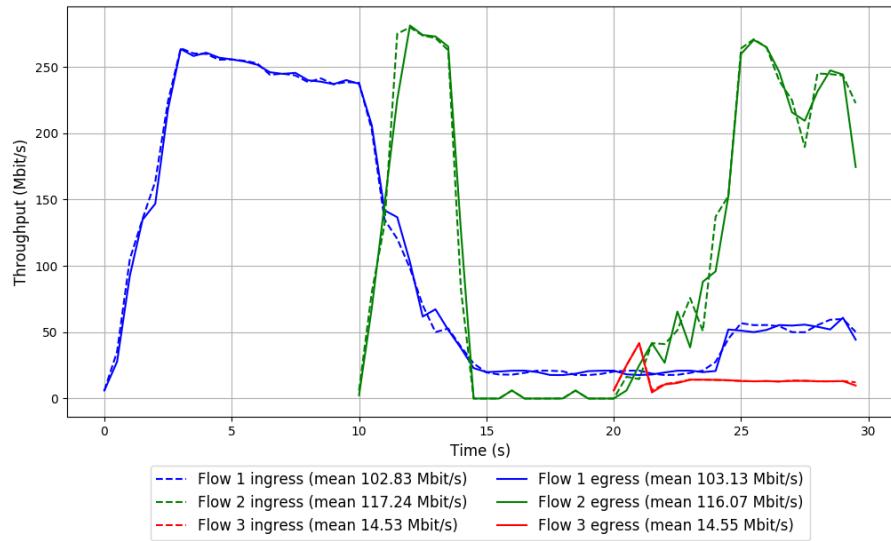


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 23:02:35
End at: 2018-02-16 23:03:05

# Below is generated by plot.py at 2018-02-17 05:49:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 184.75 Mbit/s
95th percentile per-packet one-way delay: 87.939 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 103.13 Mbit/s
95th percentile per-packet one-way delay: 86.977 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 116.07 Mbit/s
95th percentile per-packet one-way delay: 89.245 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 90.645 ms
Loss rate: 1.64%
```

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



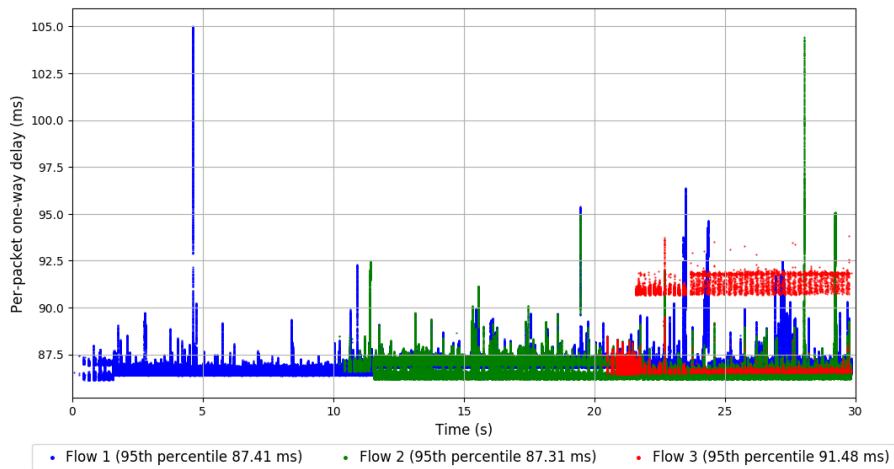
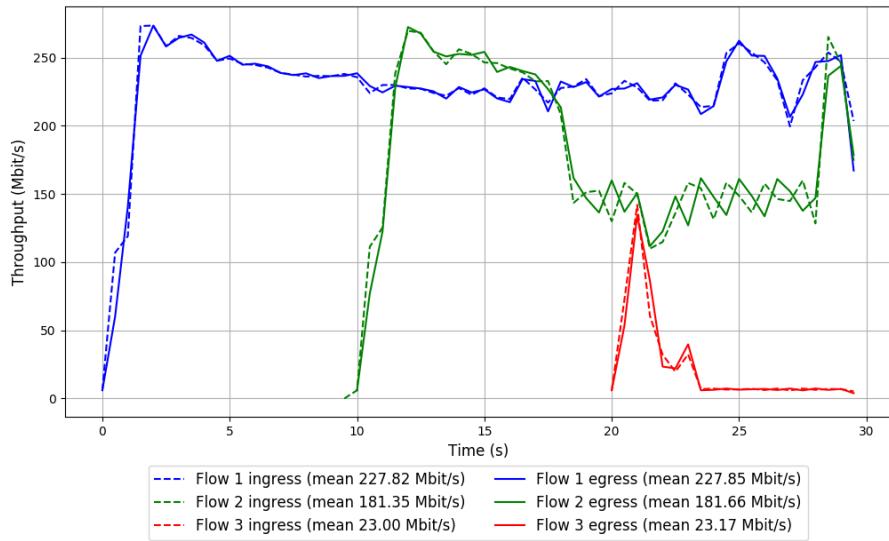
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 23:21:27

End at: 2018-02-16 23:21:57

```
# Below is generated by plot.py at 2018-02-17 05:55:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.10 Mbit/s
95th percentile per-packet one-way delay: 87.428 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 227.85 Mbit/s
95th percentile per-packet one-way delay: 87.410 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 181.66 Mbit/s
95th percentile per-packet one-way delay: 87.311 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 91.482 ms
Loss rate: 0.59%
```

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



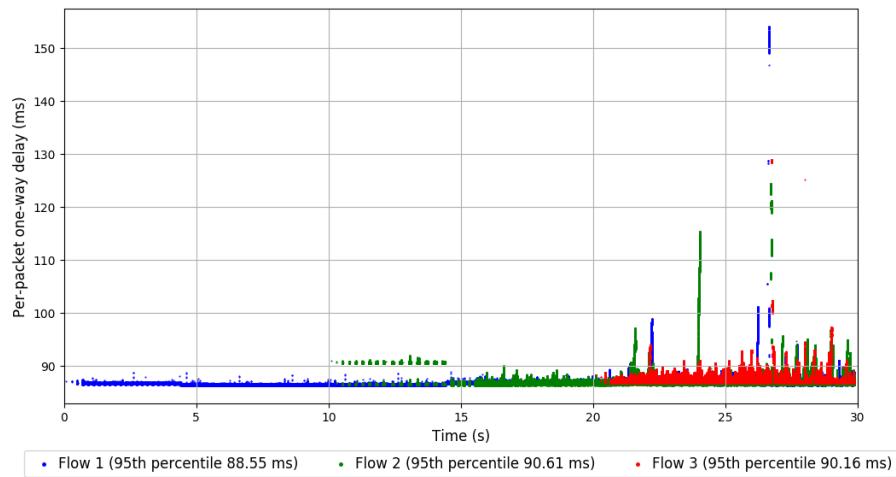
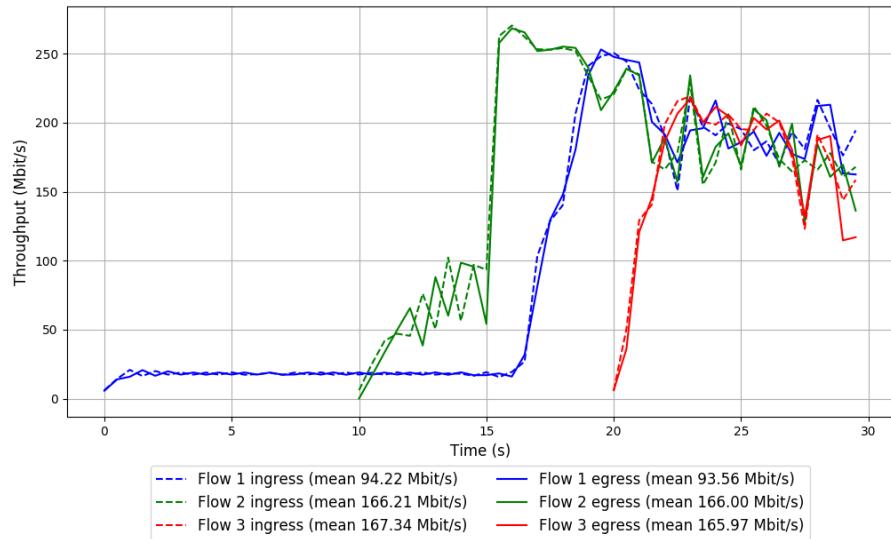
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 23:40:44

End at: 2018-02-16 23:41:15

```
# Below is generated by plot.py at 2018-02-17 05:55:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.12 Mbit/s
95th percentile per-packet one-way delay: 90.005 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 88.548 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 166.00 Mbit/s
95th percentile per-packet one-way delay: 90.609 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 165.97 Mbit/s
95th percentile per-packet one-way delay: 90.162 ms
Loss rate: 2.57%
```

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



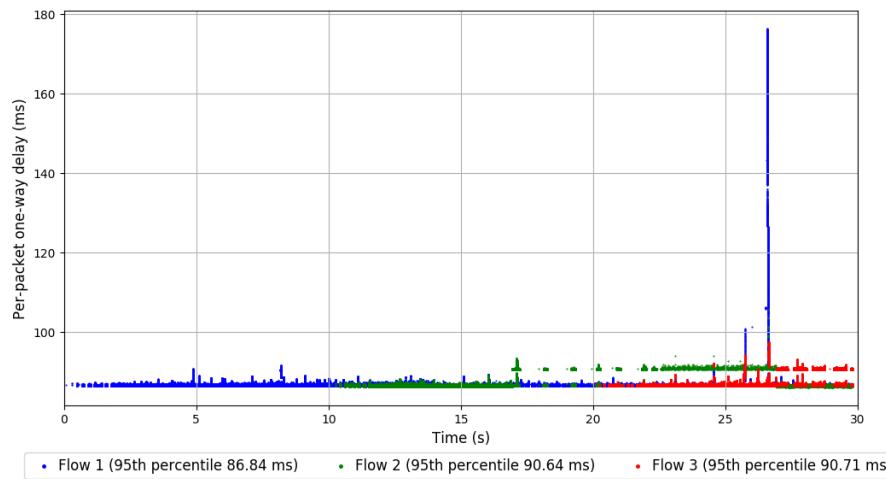
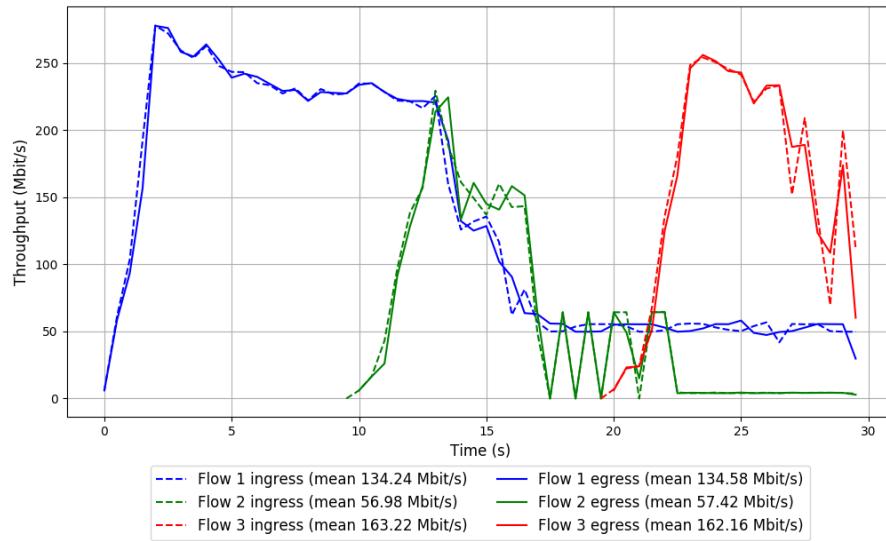
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 23:59:52

End at: 2018-02-17 00:00:22

```
# Below is generated by plot.py at 2018-02-17 05:55:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 225.94 Mbit/s
95th percentile per-packet one-way delay: 90.563 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 134.58 Mbit/s
95th percentile per-packet one-way delay: 86.838 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 90.641 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 162.16 Mbit/s
95th percentile per-packet one-way delay: 90.708 ms
Loss rate: 2.39%
```

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



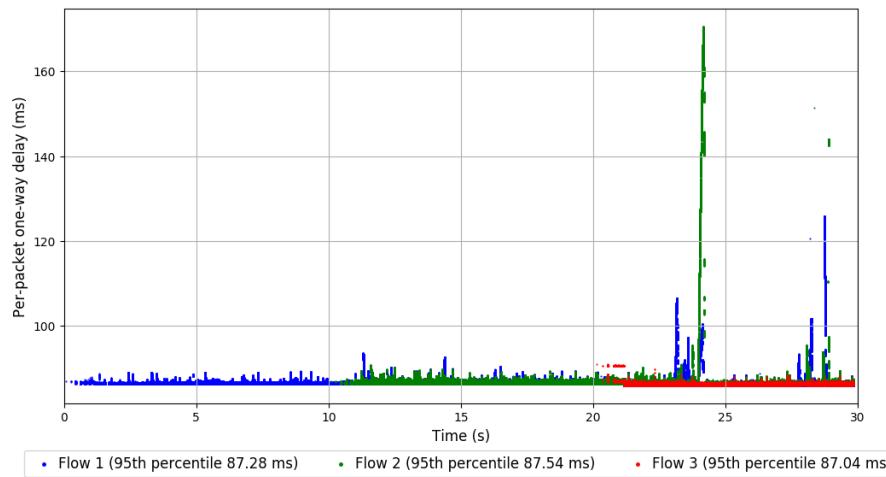
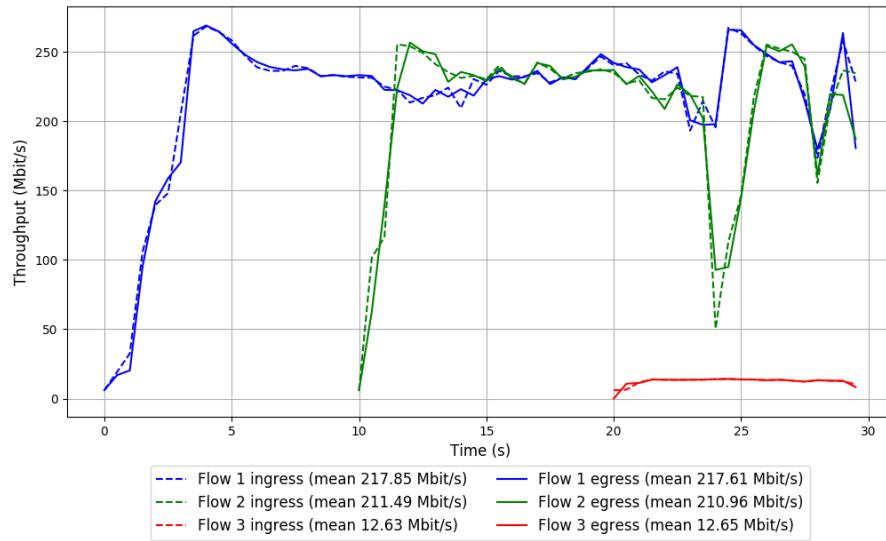
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-17 00:18:58

End at: 2018-02-17 00:19:28

```
# Below is generated by plot.py at 2018-02-17 05:55:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 361.70 Mbit/s
95th percentile per-packet one-way delay: 87.381 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 217.61 Mbit/s
95th percentile per-packet one-way delay: 87.285 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 210.96 Mbit/s
95th percentile per-packet one-way delay: 87.540 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 87.041 ms
Loss rate: 1.60%
```

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



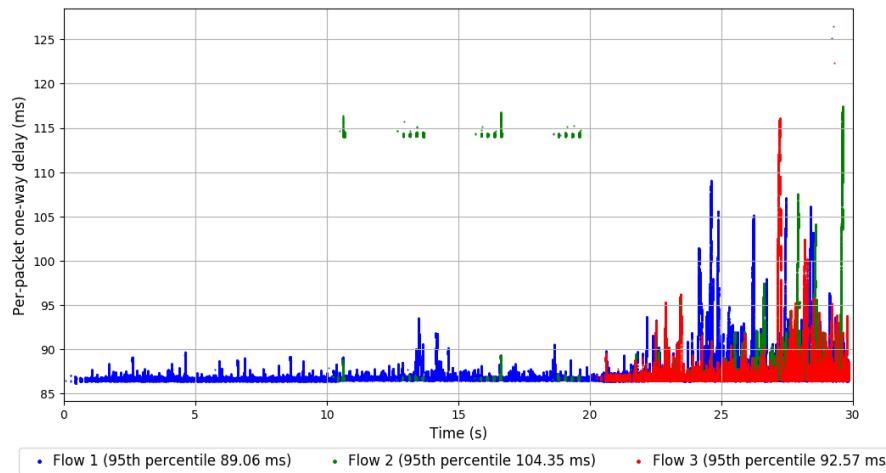
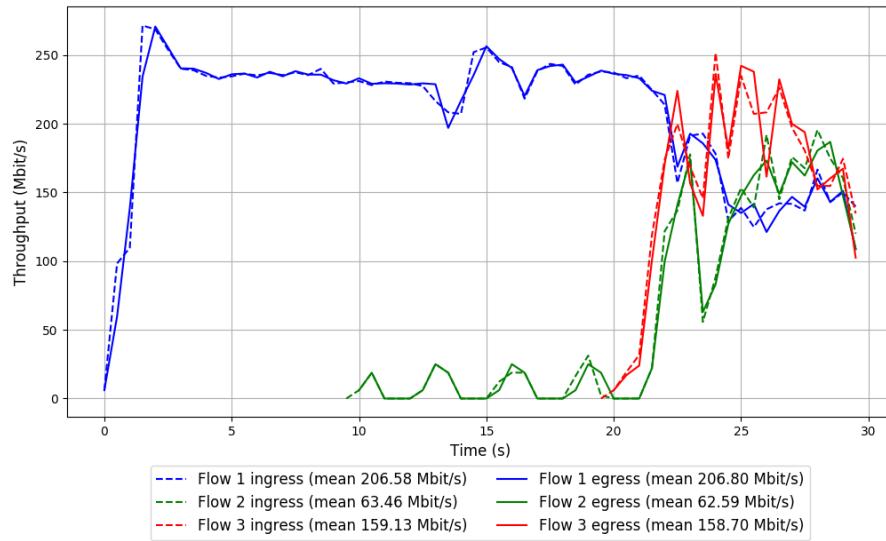
Run 6: Statistics of TaoVA-100x

Start at: 2018-02-17 00:38:28

End at: 2018-02-17 00:38:58

```
# Below is generated by plot.py at 2018-02-17 05:55:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.46 Mbit/s
95th percentile per-packet one-way delay: 91.061 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 206.80 Mbit/s
95th percentile per-packet one-way delay: 89.064 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 62.59 Mbit/s
95th percentile per-packet one-way delay: 104.346 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 158.70 Mbit/s
95th percentile per-packet one-way delay: 92.569 ms
Loss rate: 2.02%
```

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



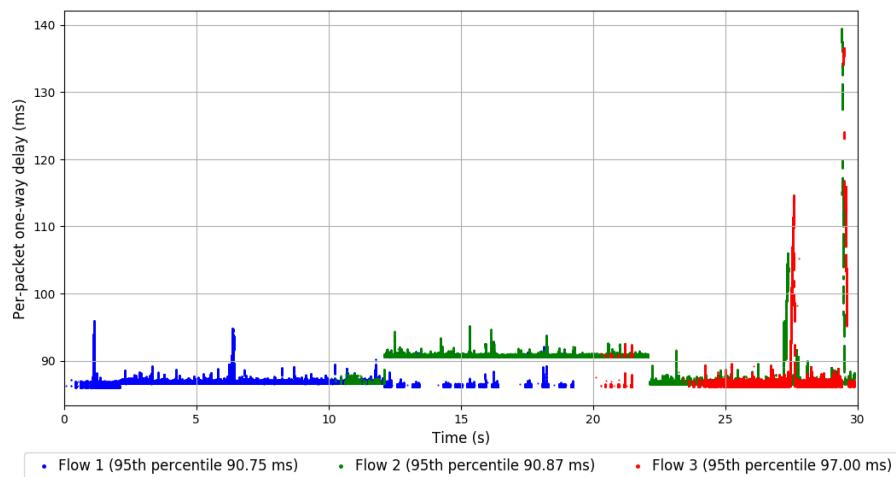
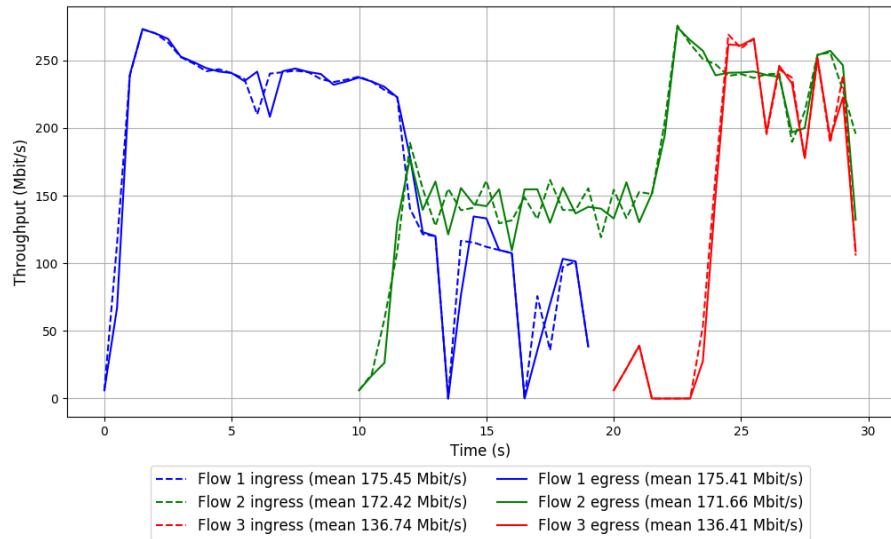
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-17 00:57:27

End at: 2018-02-17 00:57:57

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.55 Mbit/s
95th percentile per-packet one-way delay: 90.821 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 175.41 Mbit/s
95th percentile per-packet one-way delay: 90.747 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.66 Mbit/s
95th percentile per-packet one-way delay: 90.869 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 136.41 Mbit/s
95th percentile per-packet one-way delay: 97.002 ms
Loss rate: 1.99%
```

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



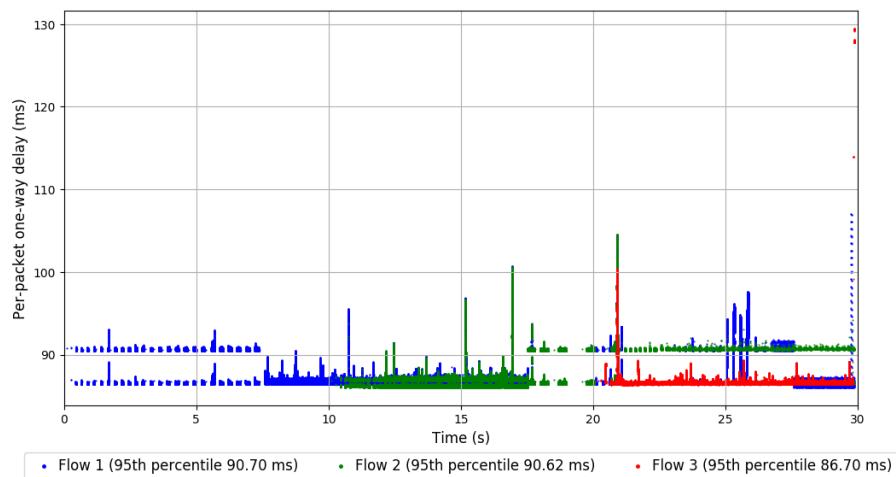
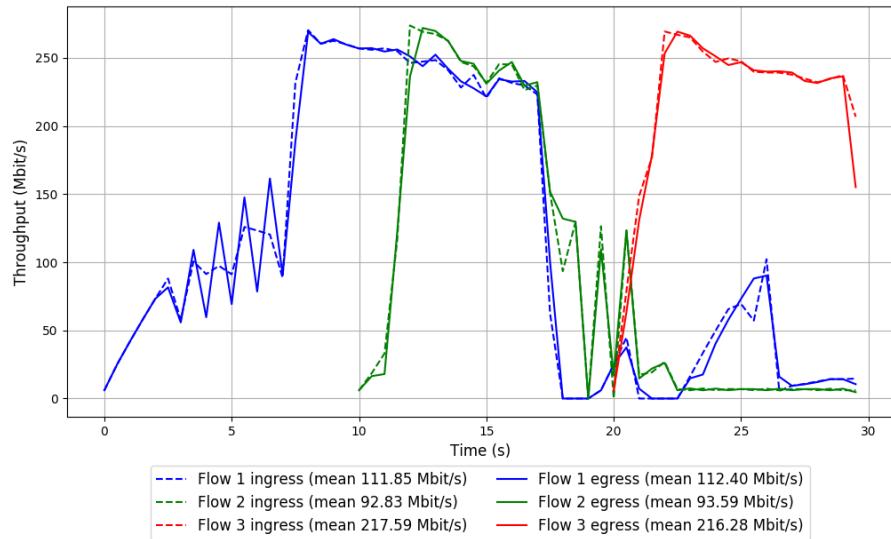
Run 8: Statistics of TaoVA-100x

Start at: 2018-02-17 01:16:21

End at: 2018-02-17 01:16:51

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.38 Mbit/s
95th percentile per-packet one-way delay: 90.638 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 112.40 Mbit/s
95th percentile per-packet one-way delay: 90.704 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 90.621 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 216.28 Mbit/s
95th percentile per-packet one-way delay: 86.702 ms
Loss rate: 2.16%
```

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



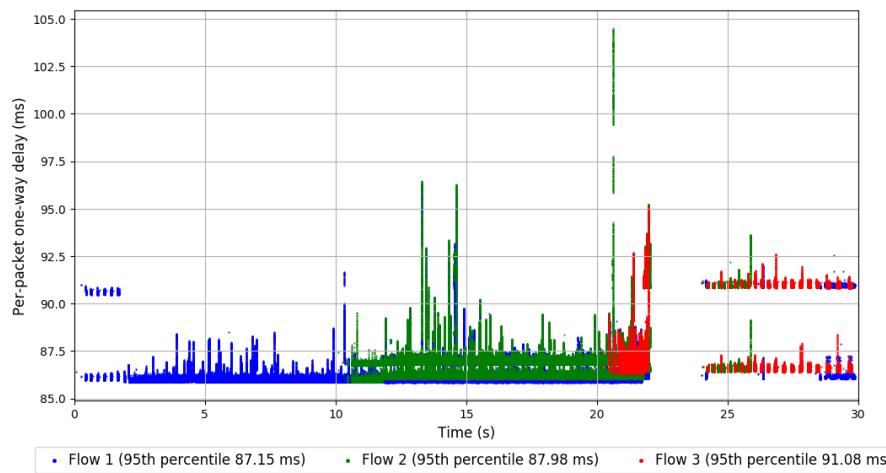
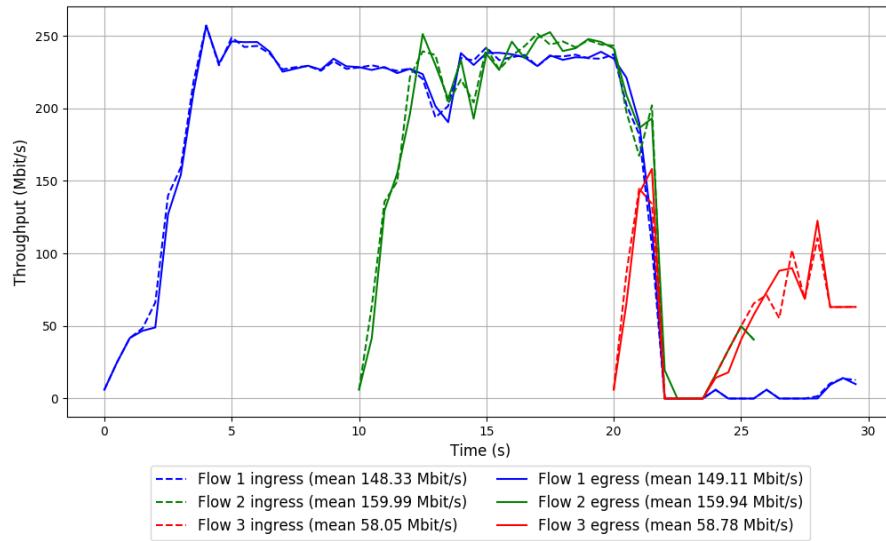
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-17 01:35:07

End at: 2018-02-17 01:35:37

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.97 Mbit/s
95th percentile per-packet one-way delay: 88.848 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 149.11 Mbit/s
95th percentile per-packet one-way delay: 87.151 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 159.94 Mbit/s
95th percentile per-packet one-way delay: 87.977 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 91.076 ms
Loss rate: 0.00%
```

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



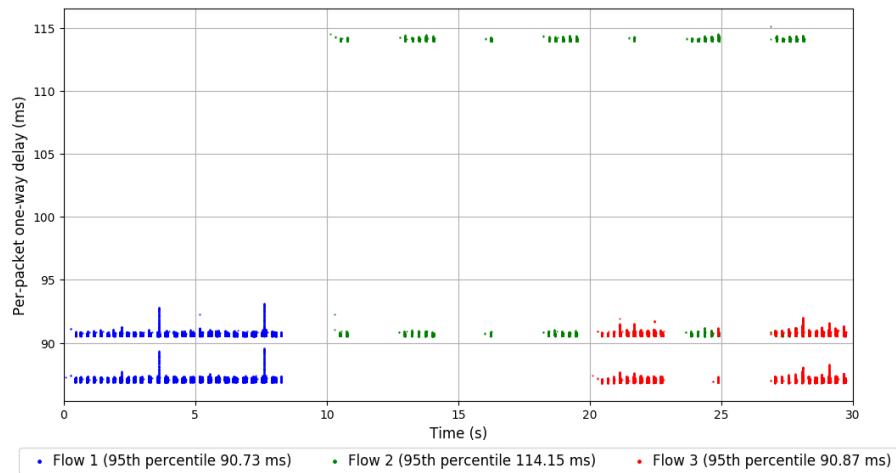
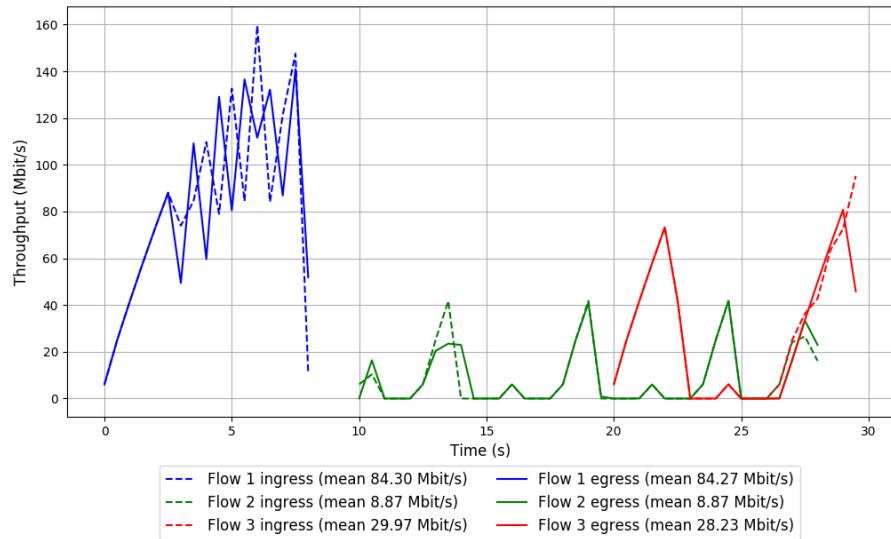
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-17 01:53:53

End at: 2018-02-17 01:54:23

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 114.013 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 90.727 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 114.150 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.23 Mbit/s
95th percentile per-packet one-way delay: 90.867 ms
Loss rate: 8.32%
```

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

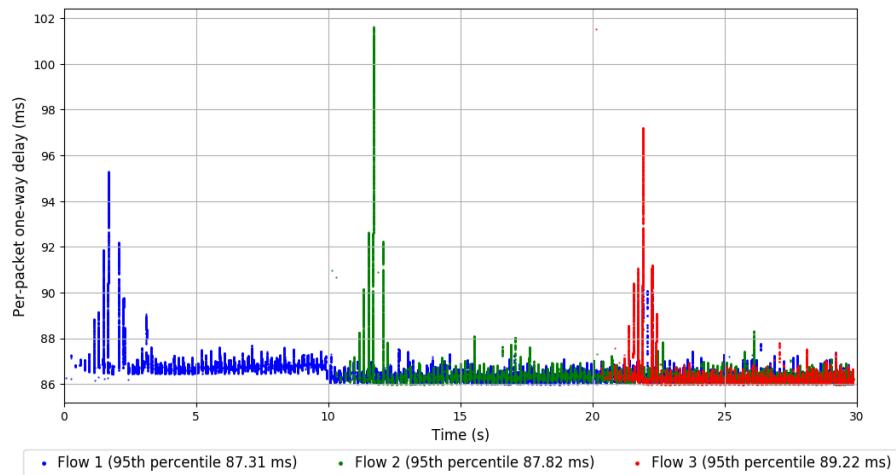
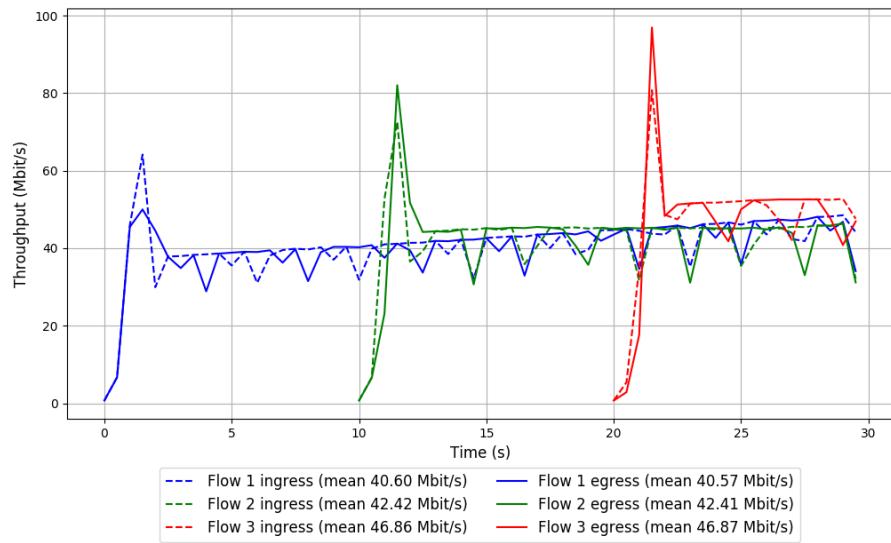


```
Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 22:56:29
End at: 2018-02-16 22:56:59

# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.93 Mbit/s
95th percentile per-packet one-way delay: 87.671 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: 87.307 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 42.41 Mbit/s
95th percentile per-packet one-way delay: 87.820 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 46.87 Mbit/s
95th percentile per-packet one-way delay: 89.221 ms
Loss rate: 1.89%
```

Run 1: Report of TCP Vegas — Data Link



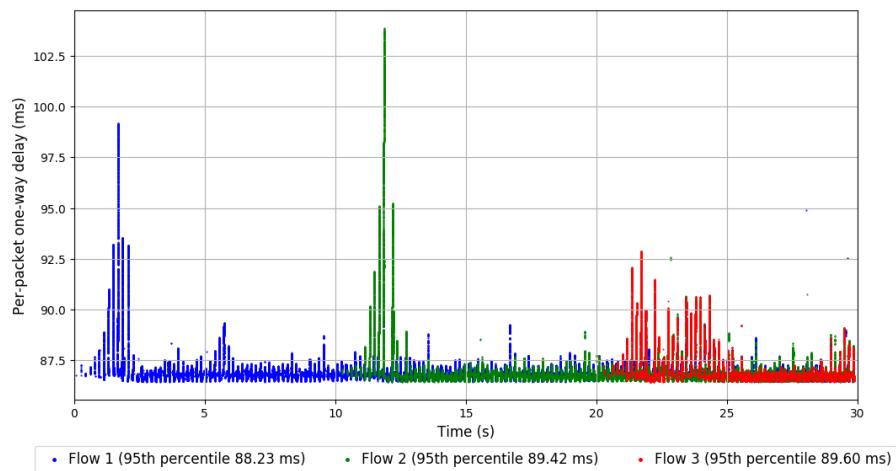
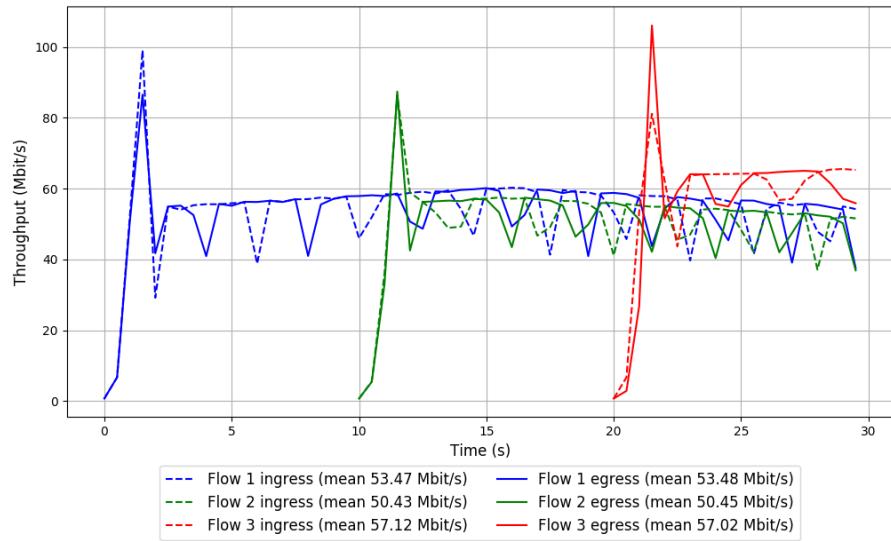
Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 23:15:20

End at: 2018-02-16 23:15:50

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.57 Mbit/s
95th percentile per-packet one-way delay: 88.927 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 88.226 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 50.45 Mbit/s
95th percentile per-packet one-way delay: 89.417 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 89.597 ms
Loss rate: 1.94%
```

Run 2: Report of TCP Vegas — Data Link



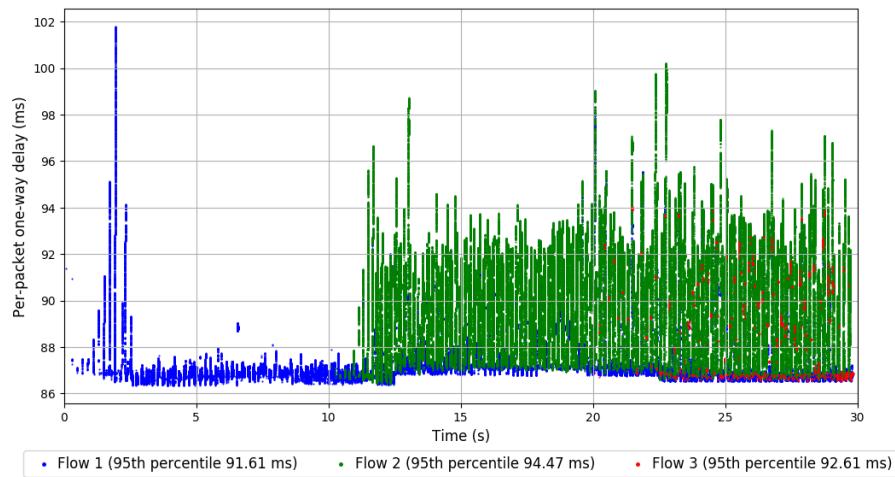
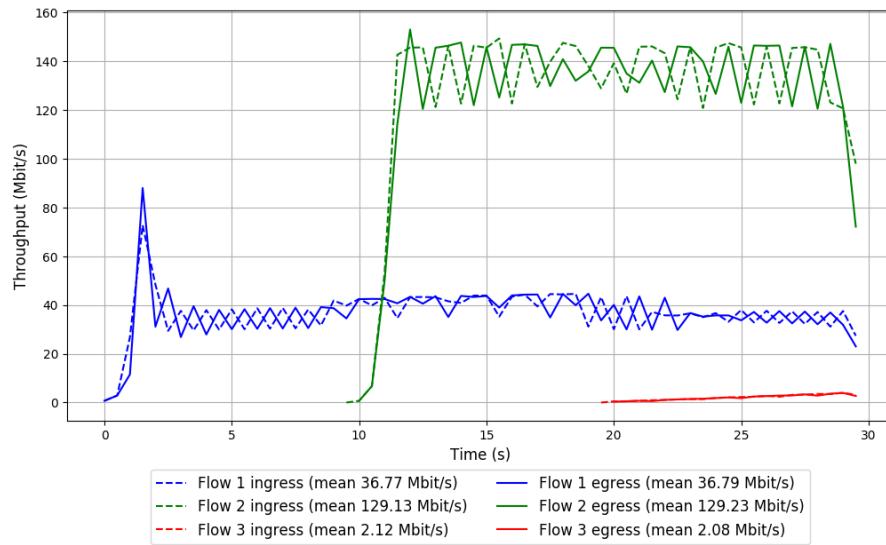
Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 23:34:26

End at: 2018-02-16 23:34:56

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.75 Mbit/s
95th percentile per-packet one-way delay: 94.046 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 91.608 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 129.23 Mbit/s
95th percentile per-packet one-way delay: 94.473 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 92.614 ms
Loss rate: 3.65%
```

Run 3: Report of TCP Vegas — Data Link



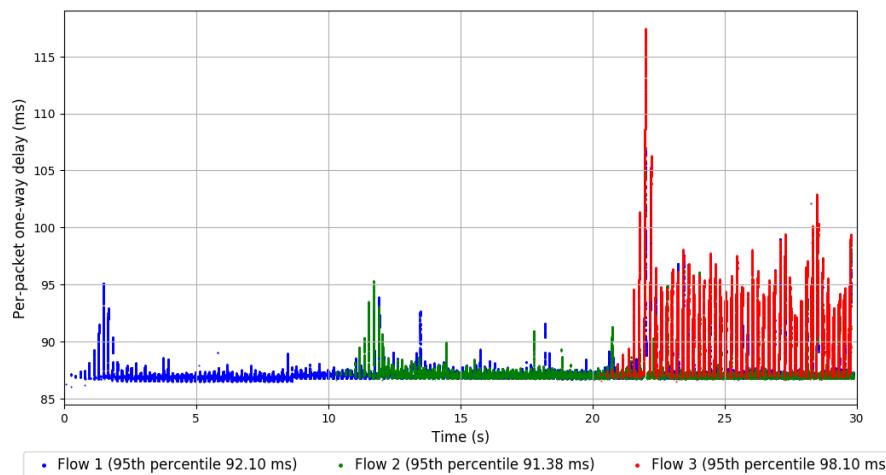
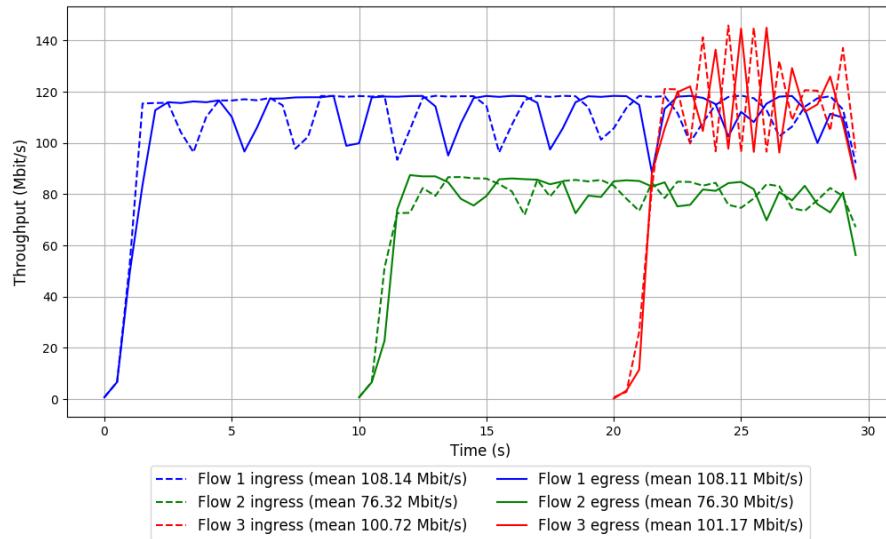
Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 23:53:40

End at: 2018-02-16 23:54:10

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.39 Mbit/s
95th percentile per-packet one-way delay: 94.729 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 108.11 Mbit/s
95th percentile per-packet one-way delay: 92.100 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 76.30 Mbit/s
95th percentile per-packet one-way delay: 91.381 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 101.17 Mbit/s
95th percentile per-packet one-way delay: 98.099 ms
Loss rate: 2.41%
```

Run 4: Report of TCP Vegas — Data Link



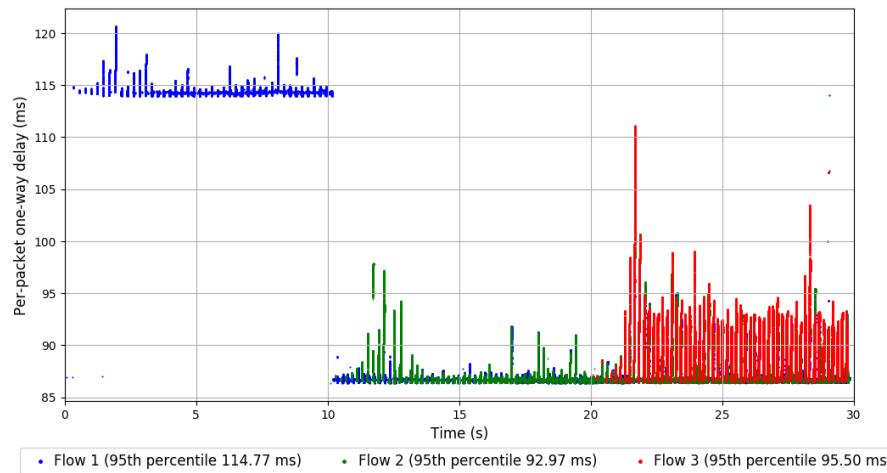
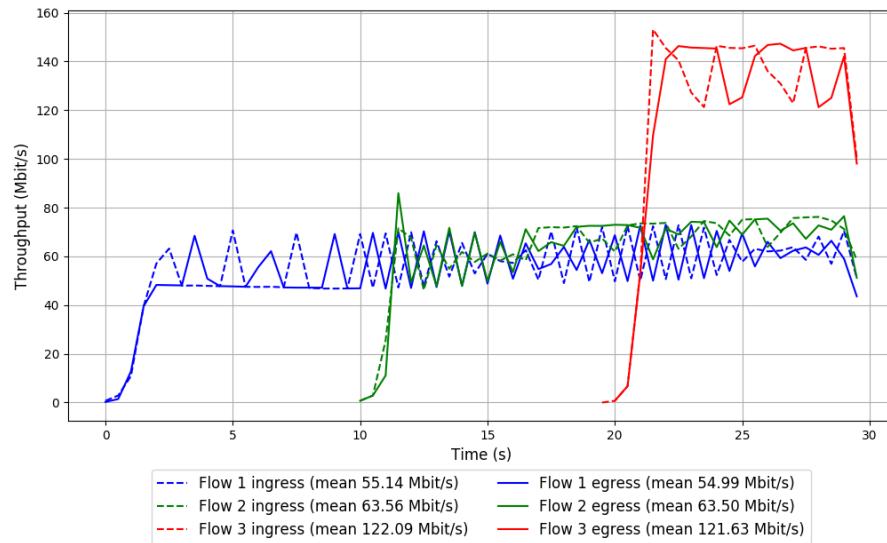
Run 5: Statistics of TCP Vegas

Start at: 2018-02-17 00:12:49

End at: 2018-02-17 00:13:19

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.69 Mbit/s
95th percentile per-packet one-way delay: 114.294 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 114.767 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 63.50 Mbit/s
95th percentile per-packet one-way delay: 92.968 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 121.63 Mbit/s
95th percentile per-packet one-way delay: 95.498 ms
Loss rate: 2.11%
```

Run 5: Report of TCP Vegas — Data Link



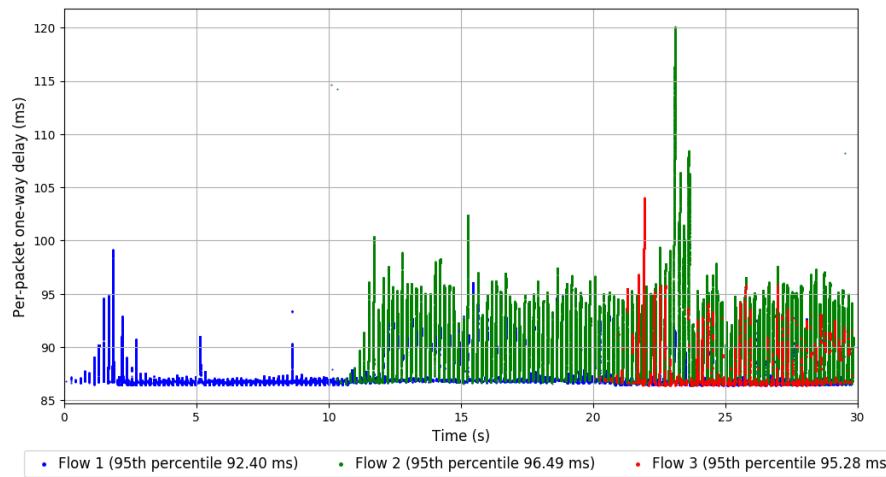
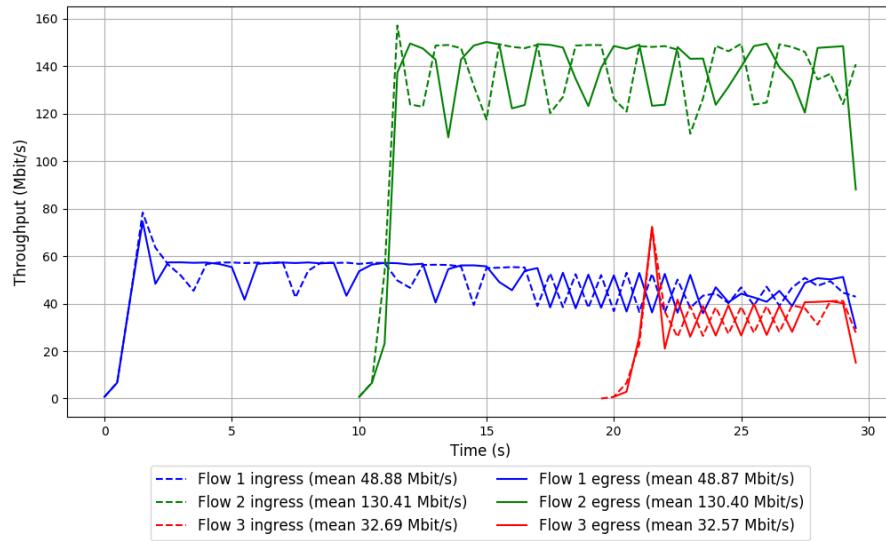
Run 6: Statistics of TCP Vegas

Start at: 2018-02-17 00:32:08

End at: 2018-02-17 00:32:38

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.90 Mbit/s
95th percentile per-packet one-way delay: 95.692 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 48.87 Mbit/s
95th percentile per-packet one-way delay: 92.401 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 130.40 Mbit/s
95th percentile per-packet one-way delay: 96.489 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 95.284 ms
Loss rate: 2.14%
```

Run 6: Report of TCP Vegas — Data Link



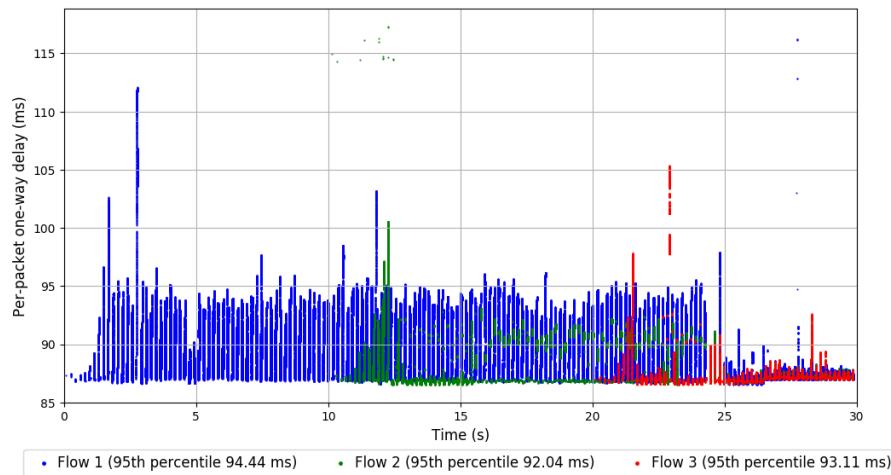
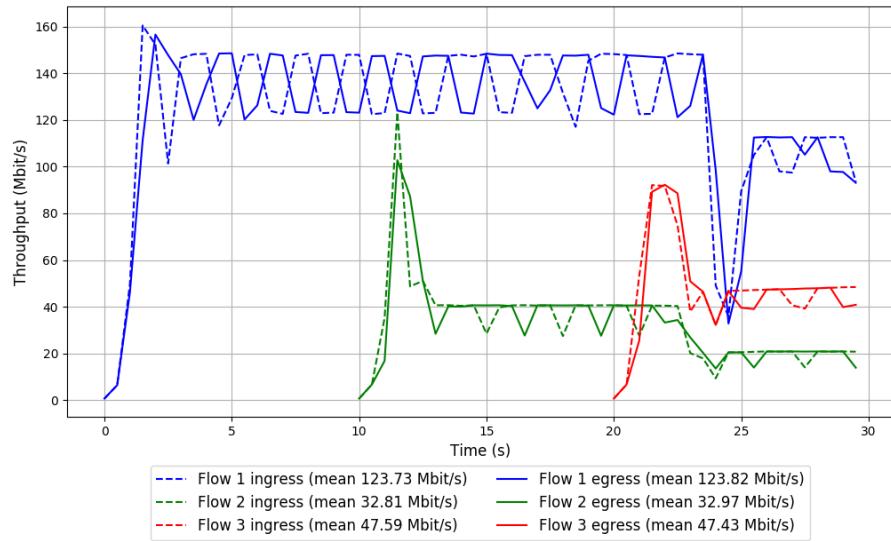
Run 7: Statistics of TCP Vegas

Start at: 2018-02-17 00:51:22

End at: 2018-02-17 00:51:52

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 161.18 Mbit/s
95th percentile per-packet one-way delay: 94.332 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 123.82 Mbit/s
95th percentile per-packet one-way delay: 94.436 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 92.044 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 47.43 Mbit/s
95th percentile per-packet one-way delay: 93.109 ms
Loss rate: 2.08%
```

Run 7: Report of TCP Vegas — Data Link



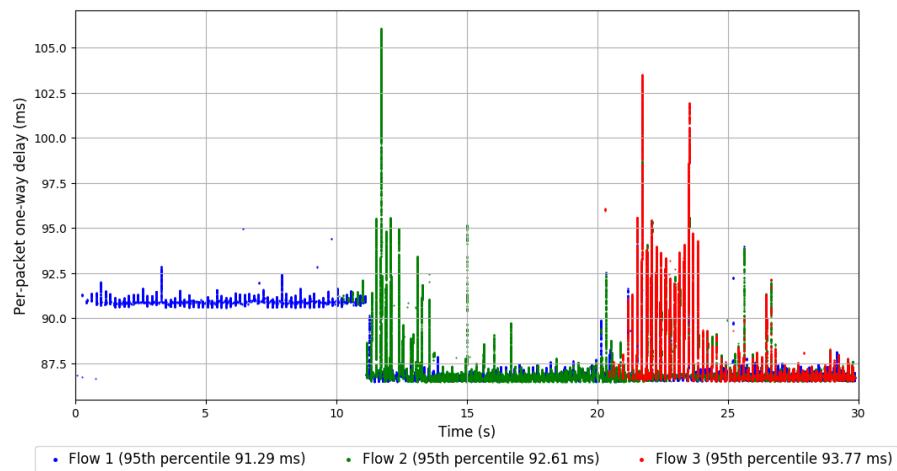
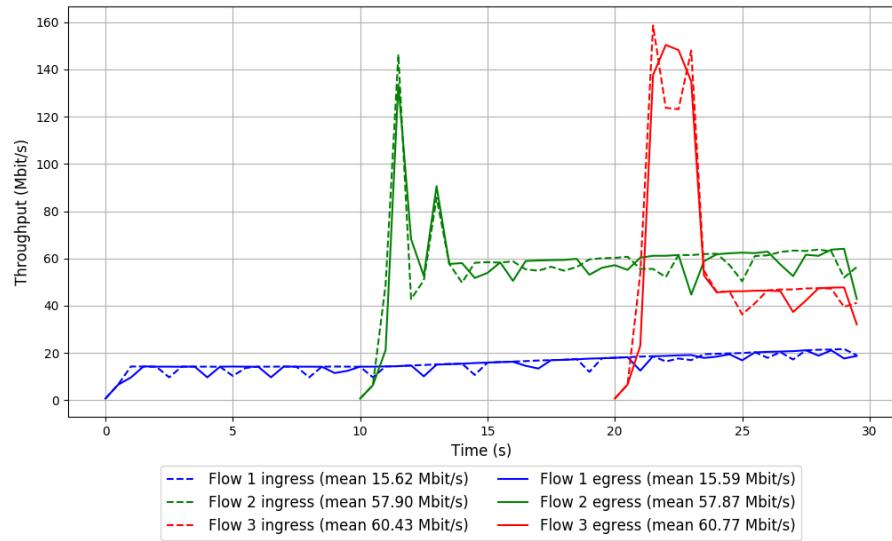
Run 8: Statistics of TCP Vegas

Start at: 2018-02-17 01:10:18

End at: 2018-02-17 01:10:48

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 92.867 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 91.291 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 57.87 Mbit/s
95th percentile per-packet one-way delay: 92.612 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 60.77 Mbit/s
95th percentile per-packet one-way delay: 93.773 ms
Loss rate: 1.33%
```

Run 8: Report of TCP Vegas — Data Link



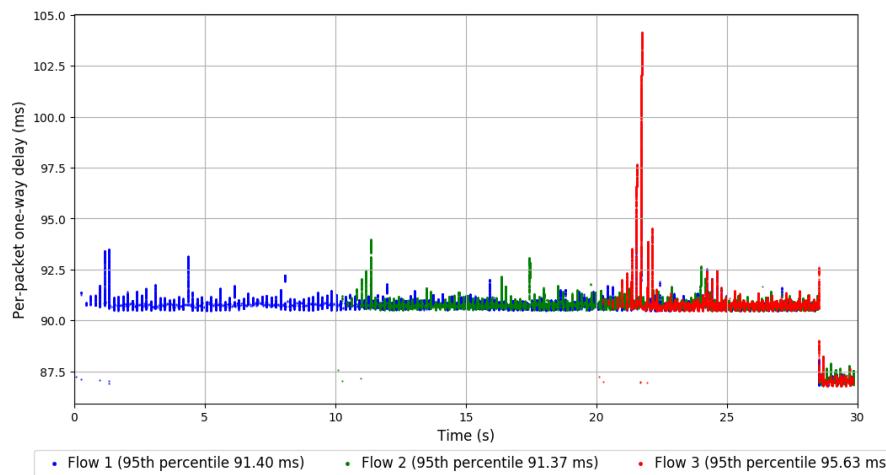
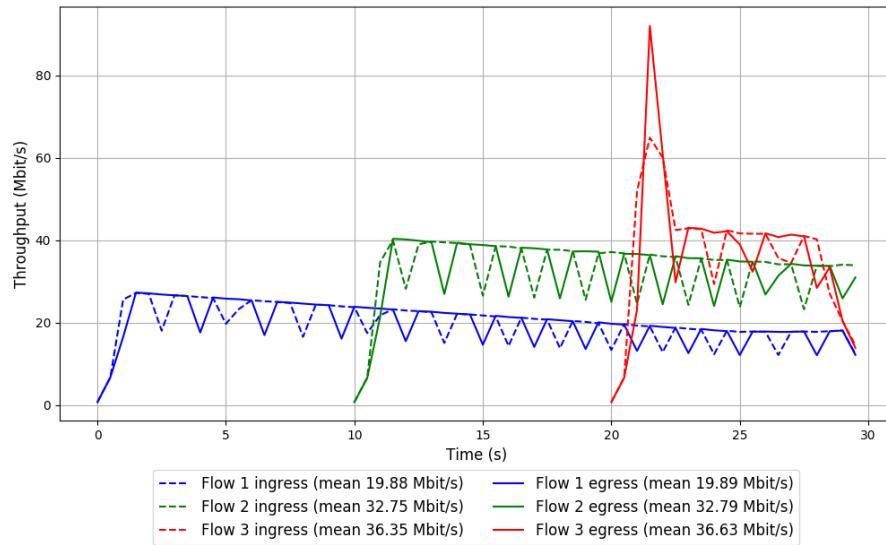
Run 9: Statistics of TCP Vegas

Start at: 2018-02-17 01:29:00

End at: 2018-02-17 01:29:30

```
# Below is generated by plot.py at 2018-02-17 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 91.806 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 91.396 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 91.374 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 36.63 Mbit/s
95th percentile per-packet one-way delay: 95.626 ms
Loss rate: 0.97%
```

Run 9: Report of TCP Vegas — Data Link



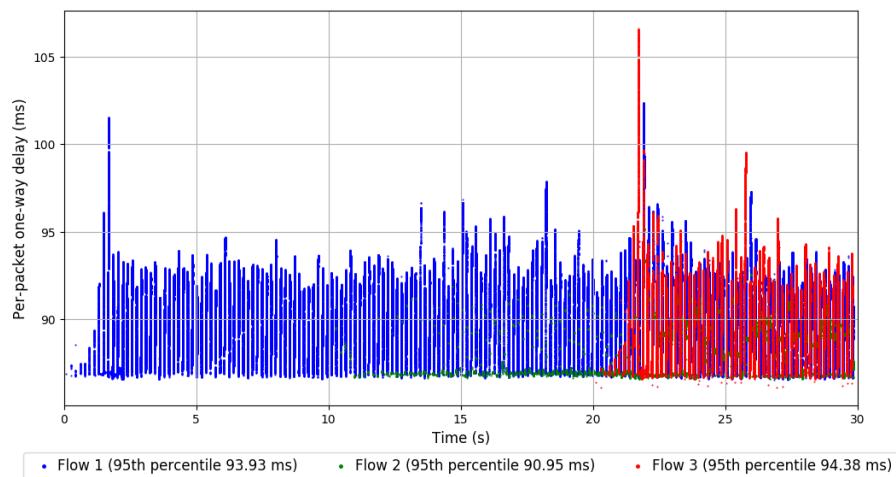
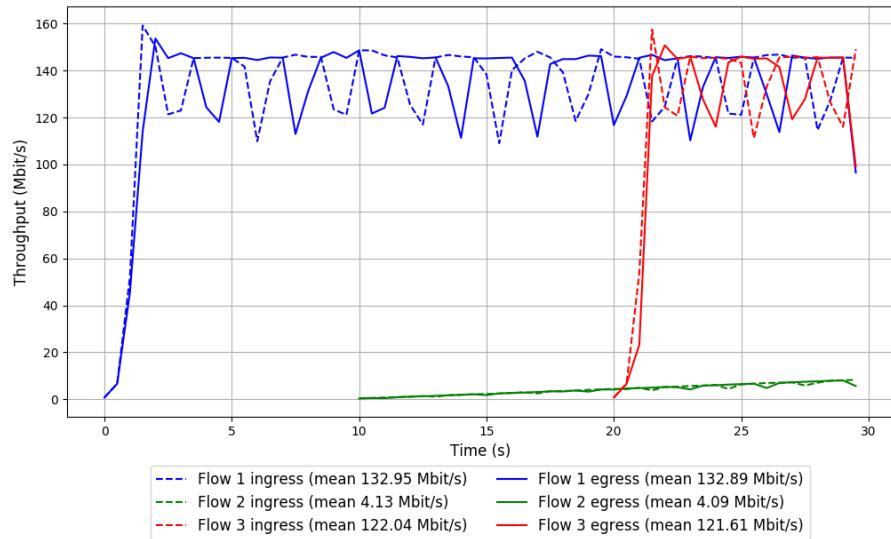
Run 10: Statistics of TCP Vegas

Start at: 2018-02-17 01:47:48

End at: 2018-02-17 01:48:18

```
# Below is generated by plot.py at 2018-02-17 06:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 175.13 Mbit/s
95th percentile per-packet one-way delay: 94.032 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 132.89 Mbit/s
95th percentile per-packet one-way delay: 93.933 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 90.948 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 121.61 Mbit/s
95th percentile per-packet one-way delay: 94.378 ms
Loss rate: 2.08%
```

Run 10: Report of TCP Vegas — Data Link

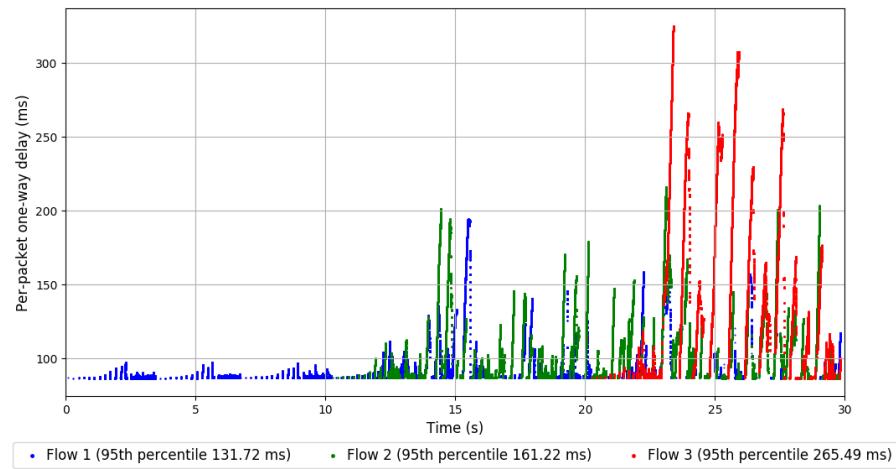
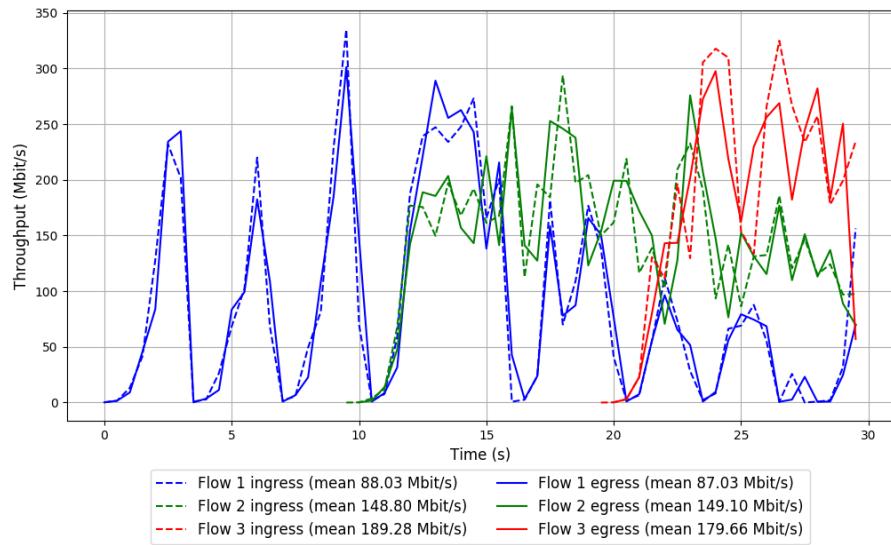


```
Run 1: Statistics of Verus

Start at: 2018-02-16 23:00:34
End at: 2018-02-16 23:01:04

# Below is generated by plot.py at 2018-02-17 06:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.48 Mbit/s
95th percentile per-packet one-way delay: 209.678 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 131.715 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 149.10 Mbit/s
95th percentile per-packet one-way delay: 161.215 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 179.66 Mbit/s
95th percentile per-packet one-way delay: 265.492 ms
Loss rate: 7.26%
```

Run 1: Report of Verus — Data Link



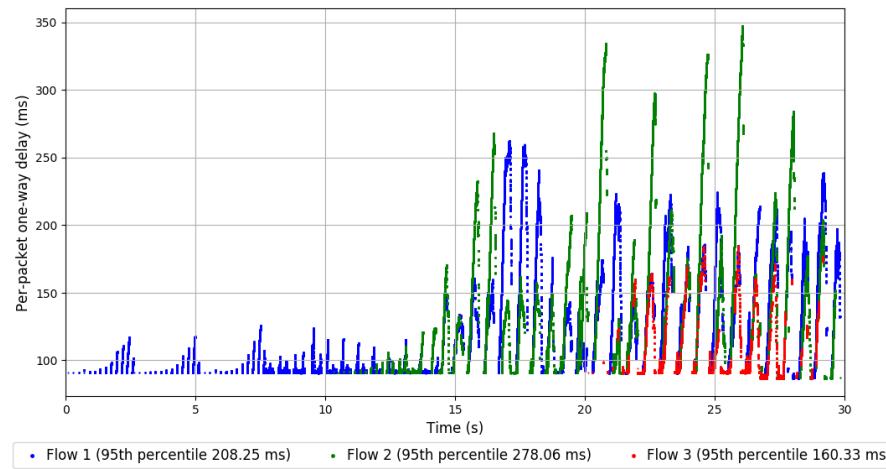
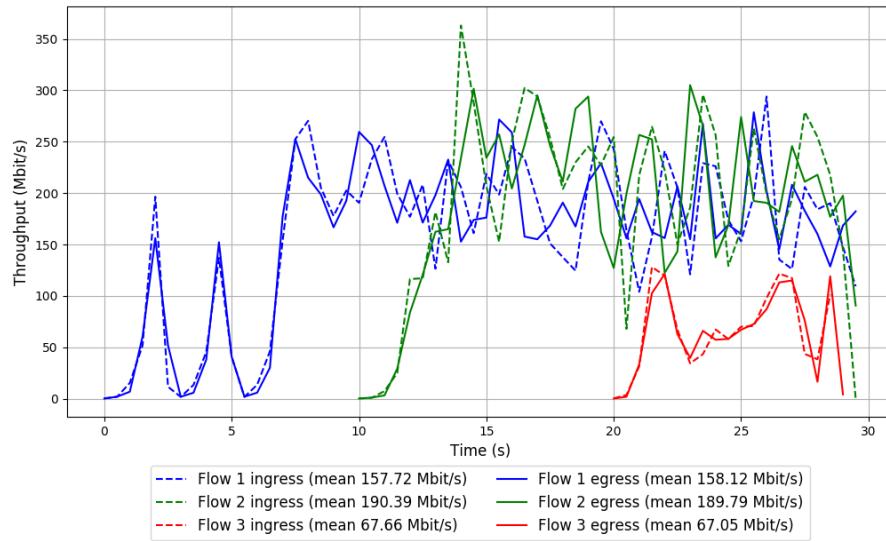
Run 2: Statistics of Verus

Start at: 2018-02-16 23:19:22

End at: 2018-02-16 23:19:52

```
# Below is generated by plot.py at 2018-02-17 06:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.33 Mbit/s
95th percentile per-packet one-way delay: 234.855 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 158.12 Mbit/s
95th percentile per-packet one-way delay: 208.249 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 189.79 Mbit/s
95th percentile per-packet one-way delay: 278.059 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 67.05 Mbit/s
95th percentile per-packet one-way delay: 160.333 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link



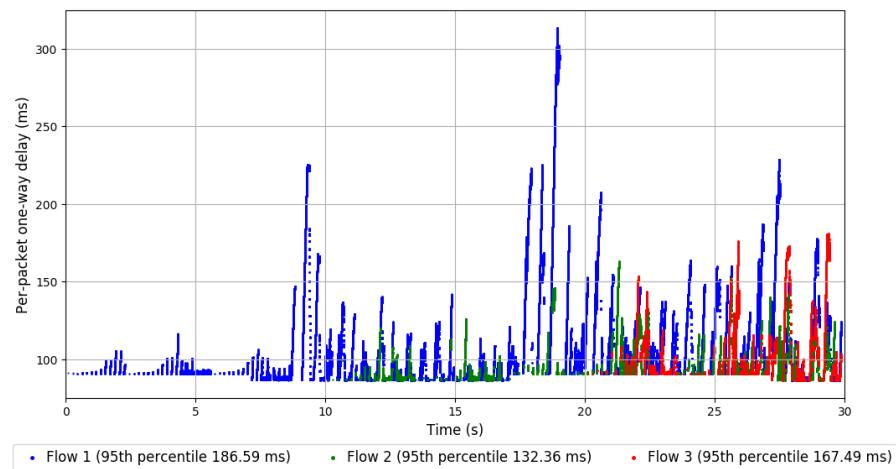
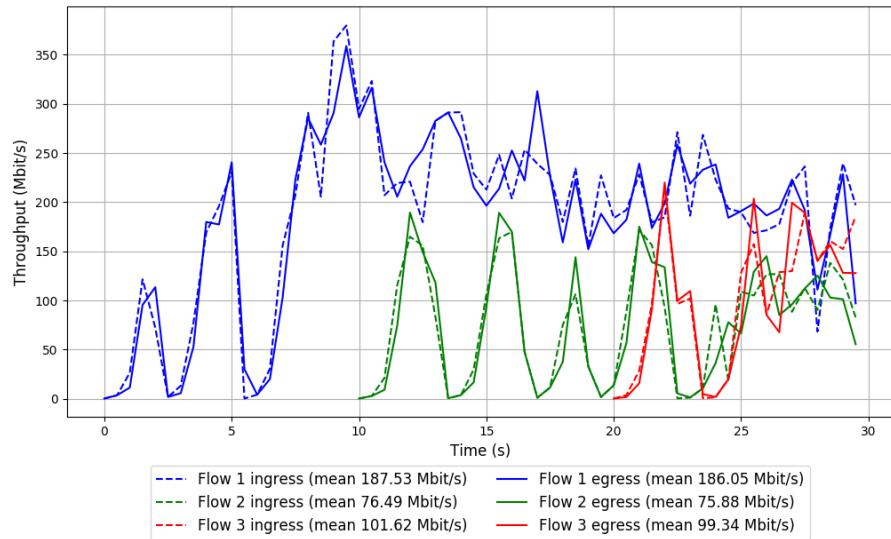
Run 3: Statistics of Verus

Start at: 2018-02-16 23:38:42

End at: 2018-02-16 23:39:12

```
# Below is generated by plot.py at 2018-02-17 06:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.30 Mbit/s
95th percentile per-packet one-way delay: 171.356 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 186.05 Mbit/s
95th percentile per-packet one-way delay: 186.590 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 75.88 Mbit/s
95th percentile per-packet one-way delay: 132.362 ms
Loss rate: 2.72%
-- Flow 3:
Average throughput: 99.34 Mbit/s
95th percentile per-packet one-way delay: 167.492 ms
Loss rate: 4.25%
```

Run 3: Report of Verus — Data Link



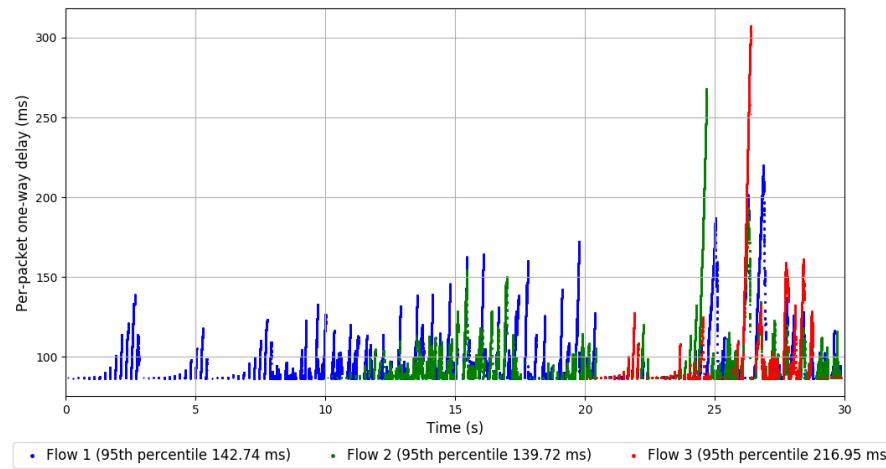
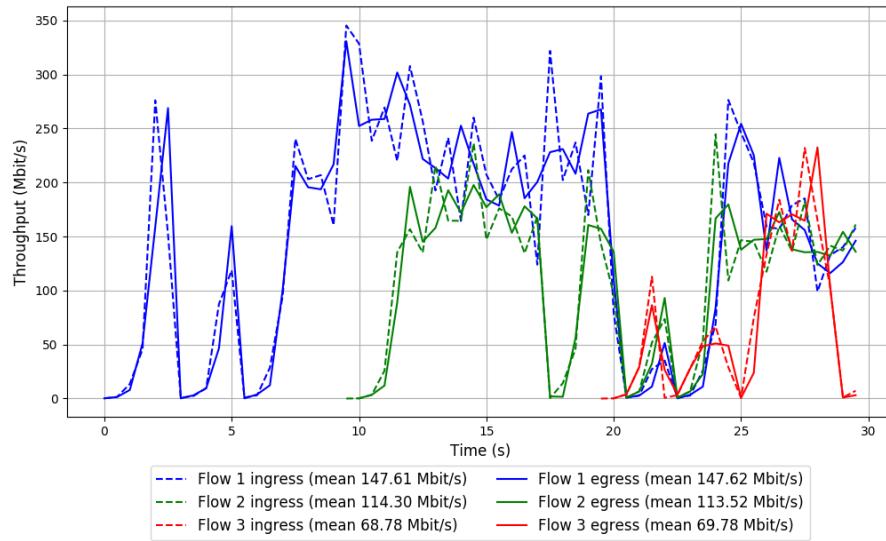
Run 4: Statistics of Verus

Start at: 2018-02-16 23:57:50

End at: 2018-02-16 23:58:20

```
# Below is generated by plot.py at 2018-02-17 06:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.89 Mbit/s
95th percentile per-packet one-way delay: 148.057 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 147.62 Mbit/s
95th percentile per-packet one-way delay: 142.741 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 113.52 Mbit/s
95th percentile per-packet one-way delay: 139.724 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 69.78 Mbit/s
95th percentile per-packet one-way delay: 216.952 ms
Loss rate: 0.33%
```

Run 4: Report of Verus — Data Link



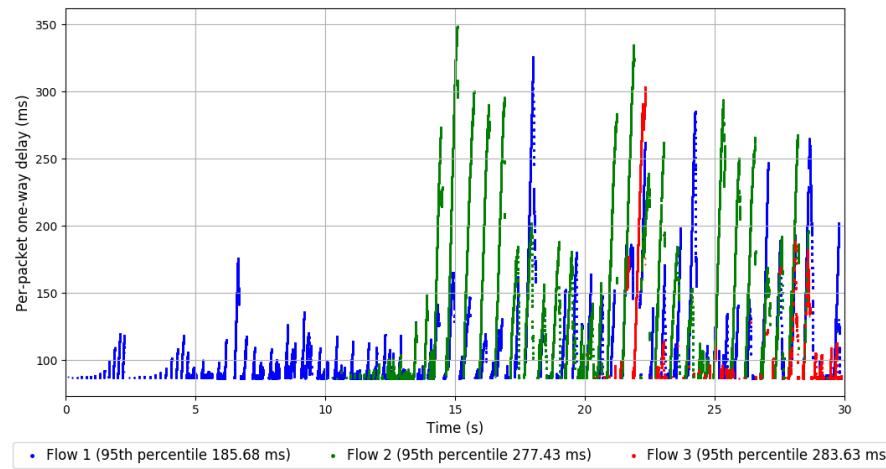
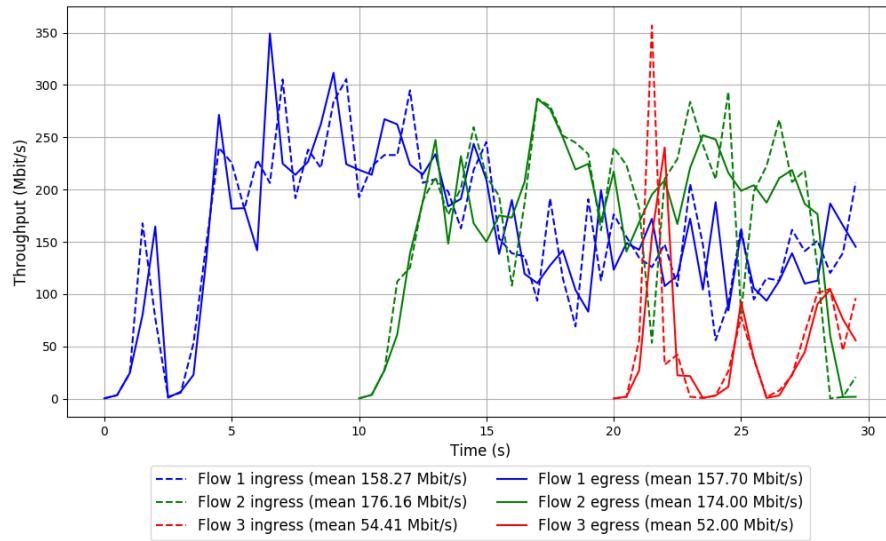
Run 5: Statistics of Verus

Start at: 2018-02-17 00:16:53

End at: 2018-02-17 00:17:23

```
# Below is generated by plot.py at 2018-02-17 06:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.29 Mbit/s
95th percentile per-packet one-way delay: 257.561 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 157.70 Mbit/s
95th percentile per-packet one-way delay: 185.682 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 174.00 Mbit/s
95th percentile per-packet one-way delay: 277.433 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 52.00 Mbit/s
95th percentile per-packet one-way delay: 283.626 ms
Loss rate: 6.26%
```

Run 5: Report of Verus — Data Link



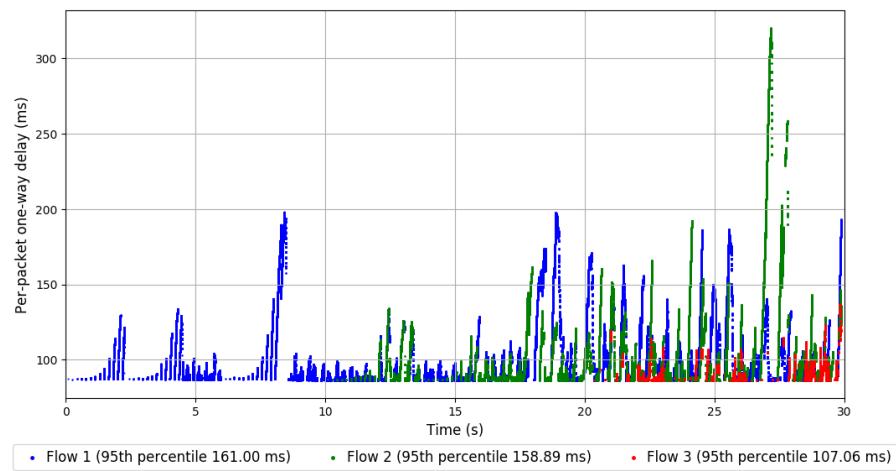
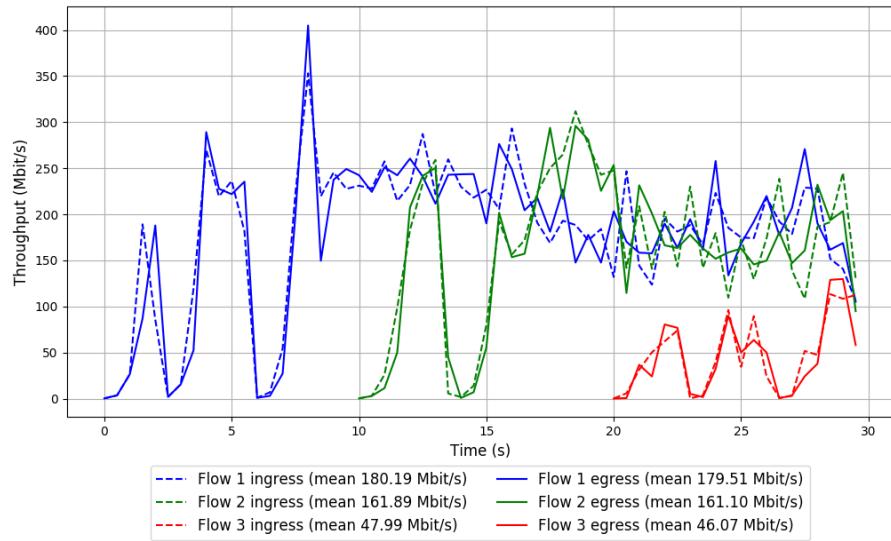
Run 6: Statistics of Verus

Start at: 2018-02-17 00:36:21

End at: 2018-02-17 00:36:51

```
# Below is generated by plot.py at 2018-02-17 06:04:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.47 Mbit/s
95th percentile per-packet one-way delay: 158.413 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 179.51 Mbit/s
95th percentile per-packet one-way delay: 161.002 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 161.10 Mbit/s
95th percentile per-packet one-way delay: 158.893 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 46.07 Mbit/s
95th percentile per-packet one-way delay: 107.056 ms
Loss rate: 5.74%
```

Run 6: Report of Verus — Data Link



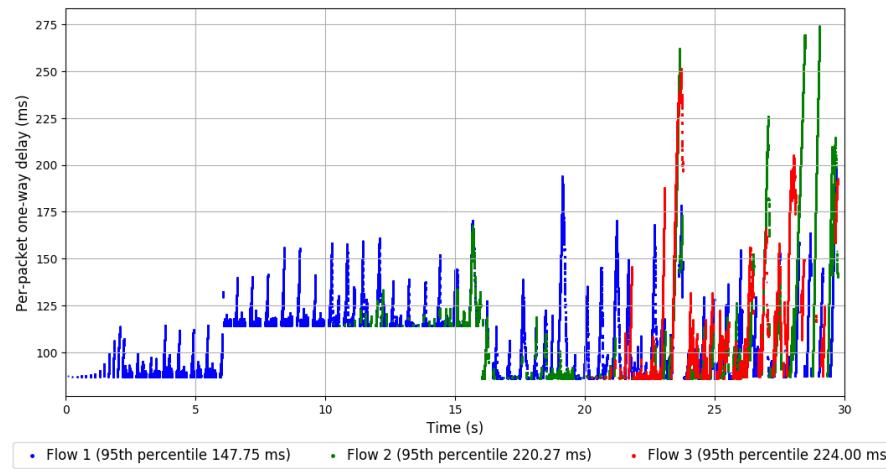
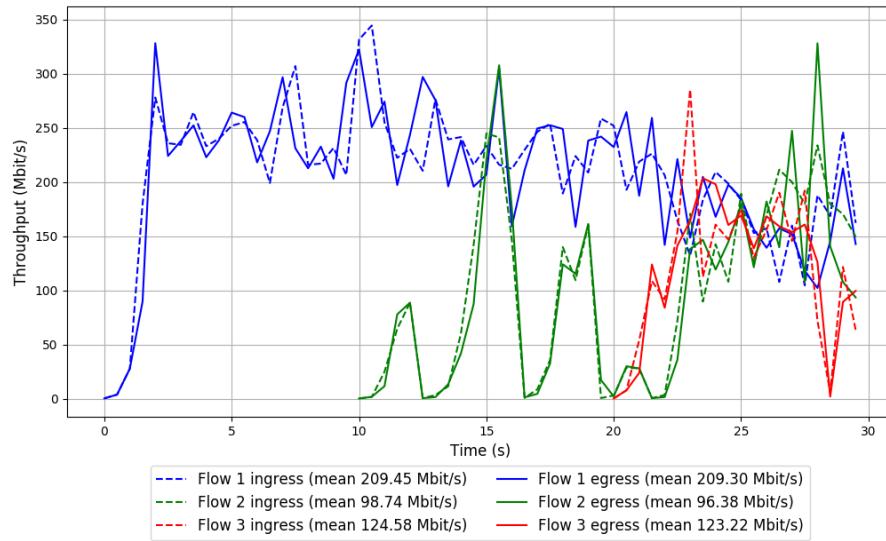
Run 7: Statistics of Verus

Start at: 2018-02-17 00:55:23

End at: 2018-02-17 00:55:53

```
# Below is generated by plot.py at 2018-02-17 06:04:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.54 Mbit/s
95th percentile per-packet one-way delay: 177.692 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 209.30 Mbit/s
95th percentile per-packet one-way delay: 147.745 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 220.269 ms
Loss rate: 4.08%
-- Flow 3:
Average throughput: 123.22 Mbit/s
95th percentile per-packet one-way delay: 224.001 ms
Loss rate: 0.00%
```

Run 7: Report of Verus — Data Link



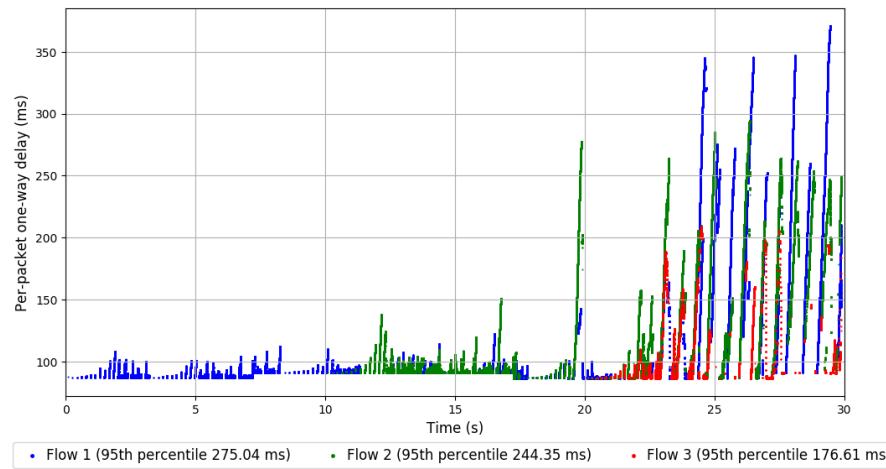
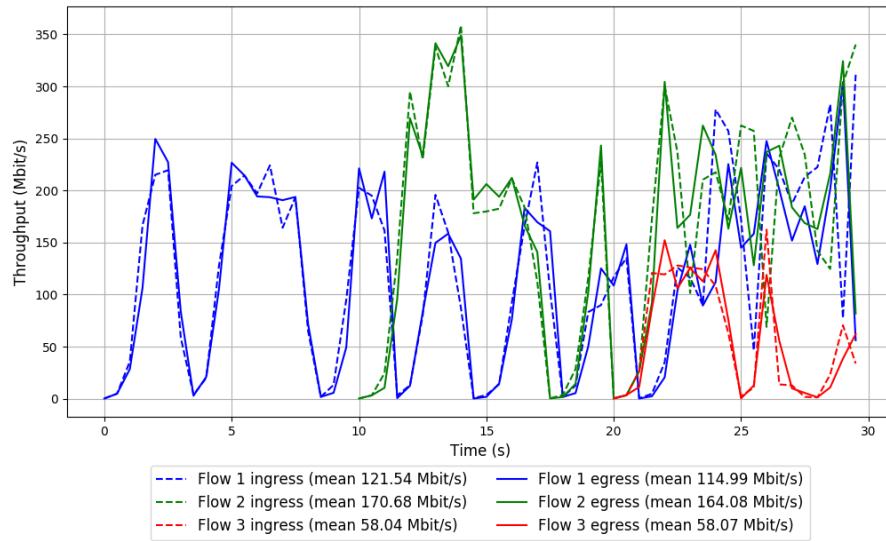
Run 8: Statistics of Verus

Start at: 2018-02-17 01:14:22

End at: 2018-02-17 01:14:52

```
# Below is generated by plot.py at 2018-02-17 06:05:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.93 Mbit/s
95th percentile per-packet one-way delay: 250.829 ms
Loss rate: 4.67%
-- Flow 1:
Average throughput: 114.99 Mbit/s
95th percentile per-packet one-way delay: 275.040 ms
Loss rate: 5.44%
-- Flow 2:
Average throughput: 164.08 Mbit/s
95th percentile per-packet one-way delay: 244.352 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 176.608 ms
Loss rate: 1.71%
```

Run 8: Report of Verus — Data Link



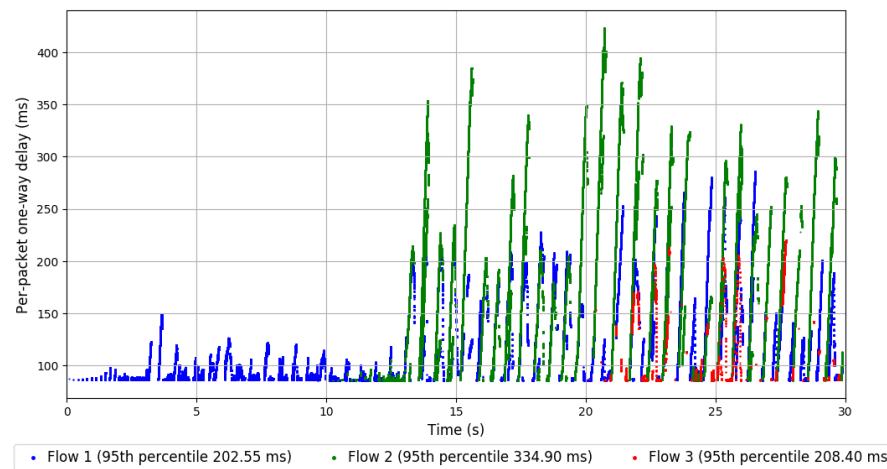
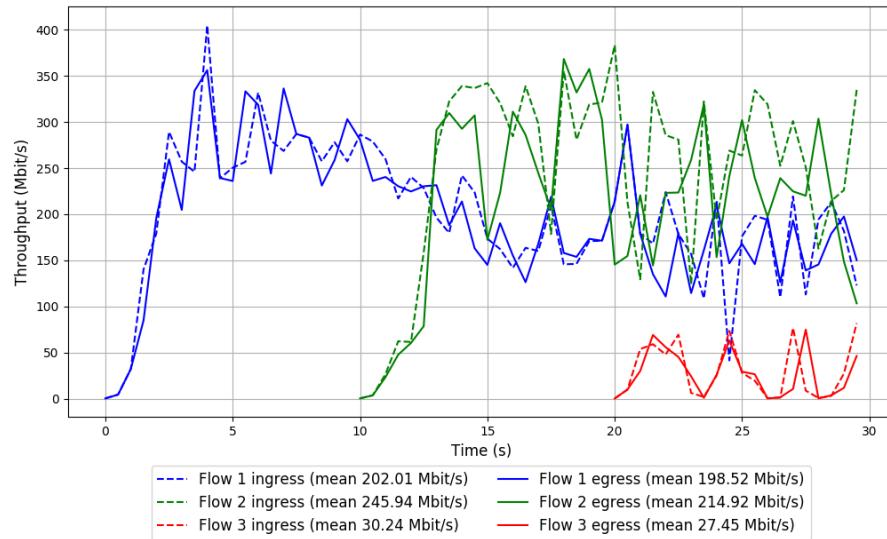
Run 9: Statistics of Verus

Start at: 2018-02-17 01:32:59

End at: 2018-02-17 01:33:29

```
# Below is generated by plot.py at 2018-02-17 06:08:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.06 Mbit/s
95th percentile per-packet one-way delay: 292.267 ms
Loss rate: 7.09%
-- Flow 1:
Average throughput: 198.52 Mbit/s
95th percentile per-packet one-way delay: 202.549 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 214.92 Mbit/s
95th percentile per-packet one-way delay: 334.897 ms
Loss rate: 13.37%
-- Flow 3:
Average throughput: 27.45 Mbit/s
95th percentile per-packet one-way delay: 208.399 ms
Loss rate: 11.00%
```

Run 9: Report of Verus — Data Link



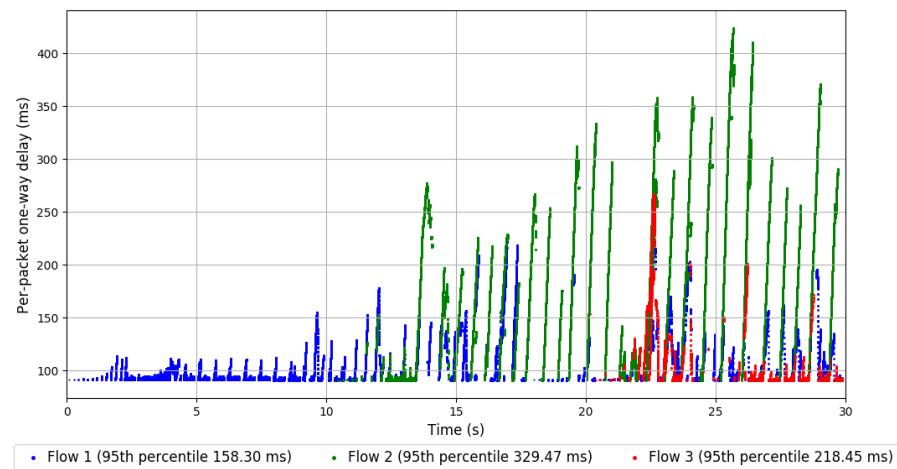
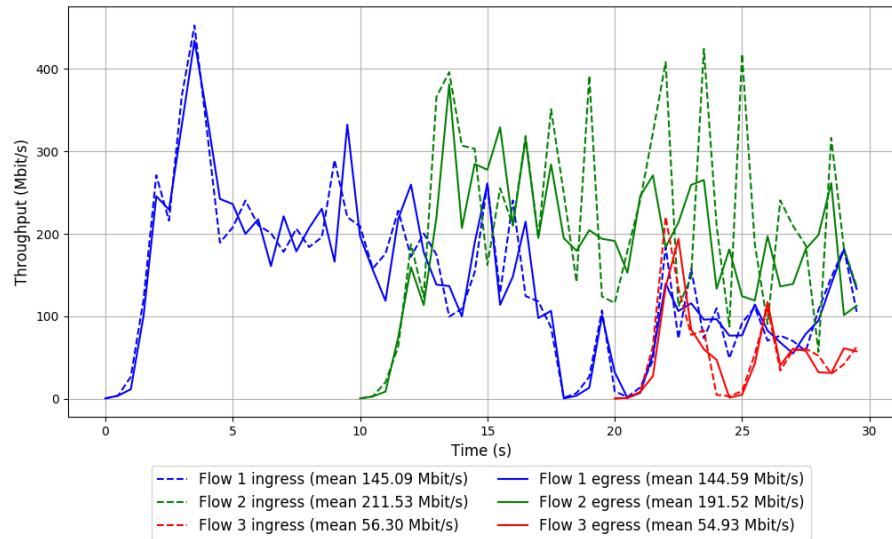
Run 10: Statistics of Verus

Start at: 2018-02-17 01:51:51

End at: 2018-02-17 01:52:21

```
# Below is generated by plot.py at 2018-02-17 06:08:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.06 Mbit/s
95th percentile per-packet one-way delay: 283.445 ms
Loss rate: 5.56%
-- Flow 1:
Average throughput: 144.59 Mbit/s
95th percentile per-packet one-way delay: 158.297 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 191.52 Mbit/s
95th percentile per-packet one-way delay: 329.474 ms
Loss rate: 11.08%
-- Flow 3:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 218.447 ms
Loss rate: 4.14%
```

Run 10: Report of Verus — Data Link



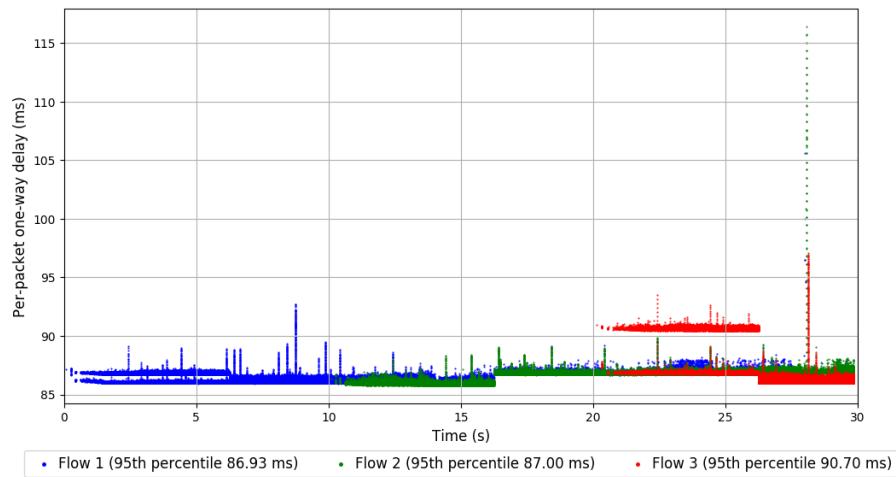
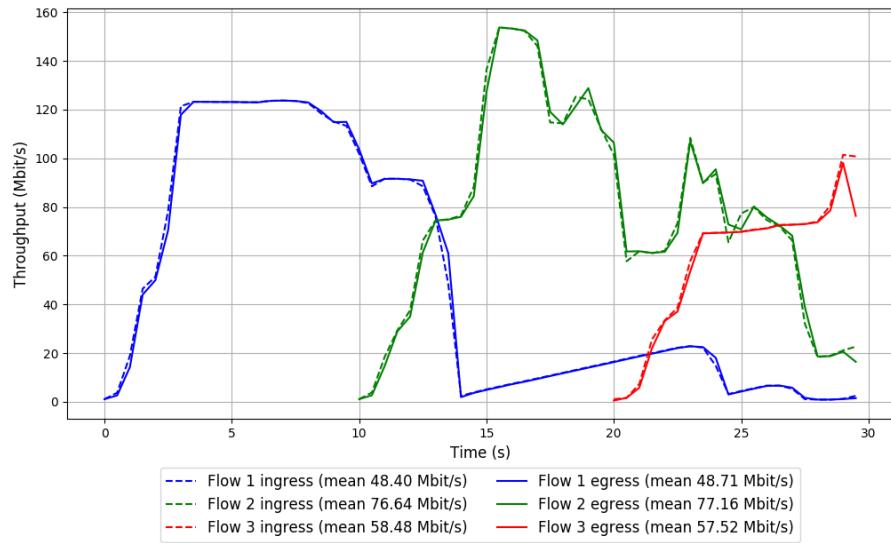
Run 1: Statistics of Copa

Start at: 2018-02-16 22:54:23

End at: 2018-02-16 22:54:53

```
# Below is generated by plot.py at 2018-02-17 06:08:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.72 Mbit/s
95th percentile per-packet one-way delay: 87.136 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 48.71 Mbit/s
95th percentile per-packet one-way delay: 86.930 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 87.002 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 90.696 ms
Loss rate: 3.68%
```

Run 1: Report of Copa — Data Link



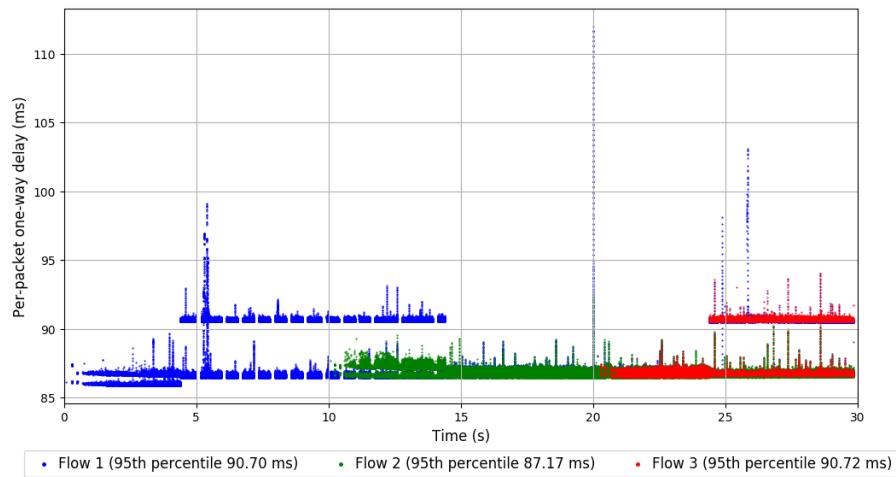
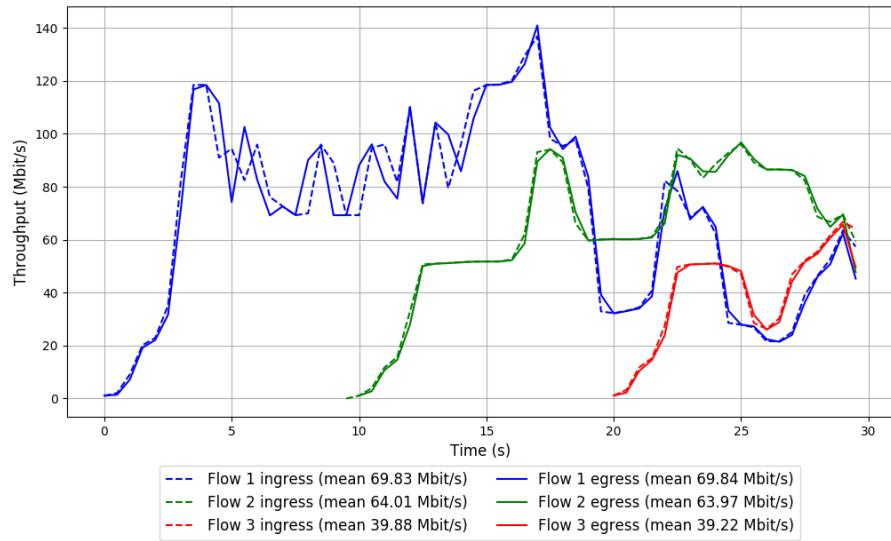
Run 2: Statistics of Copa

Start at: 2018-02-16 23:13:14

End at: 2018-02-16 23:13:45

```
# Below is generated by plot.py at 2018-02-17 06:08:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.17 Mbit/s
95th percentile per-packet one-way delay: 90.676 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 69.84 Mbit/s
95th percentile per-packet one-way delay: 90.699 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 90.715 ms
Loss rate: 3.37%
```

Run 2: Report of Copa — Data Link



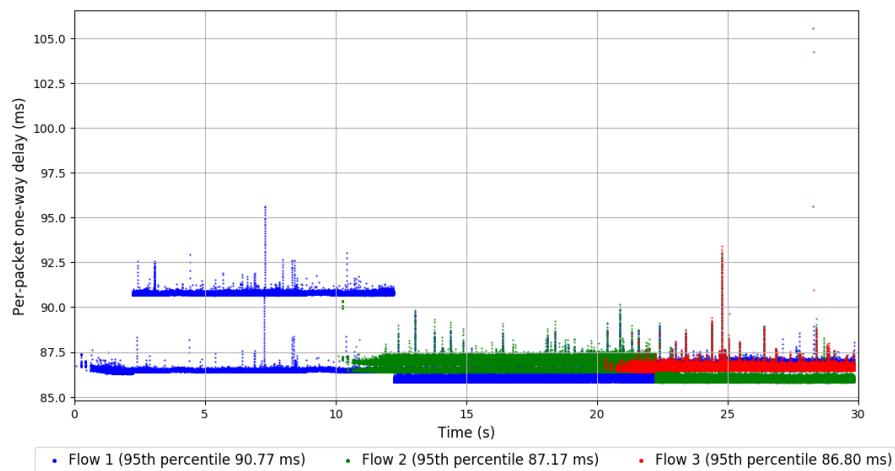
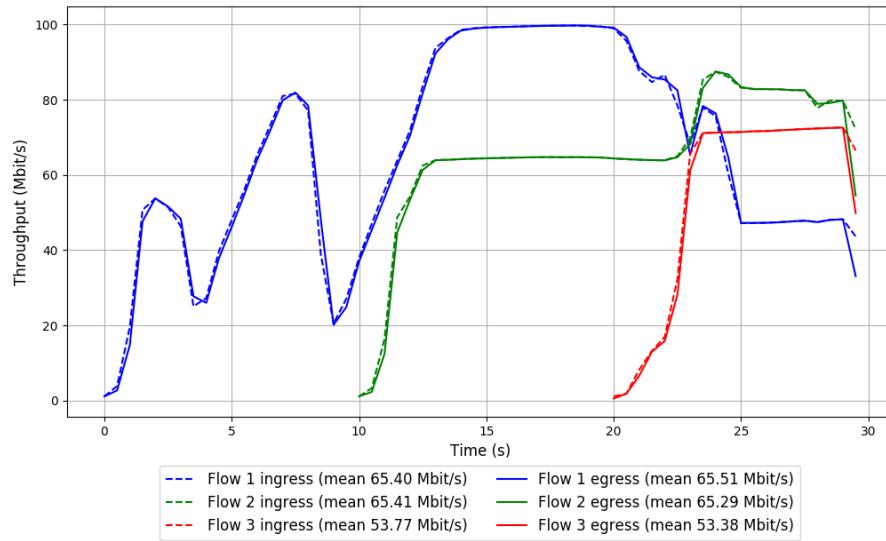
Run 3: Statistics of Copa

Start at: 2018-02-16 23:32:27

End at: 2018-02-16 23:32:57

```
# Below is generated by plot.py at 2018-02-17 06:08:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.29 Mbit/s
95th percentile per-packet one-way delay: 90.712 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 65.51 Mbit/s
95th percentile per-packet one-way delay: 90.767 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 65.29 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 53.38 Mbit/s
95th percentile per-packet one-way delay: 86.803 ms
Loss rate: 2.74%
```

Run 3: Report of Copa — Data Link



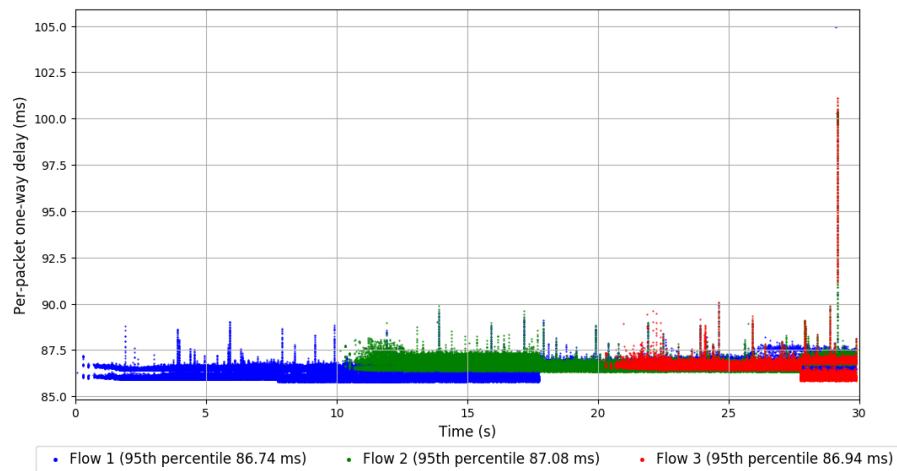
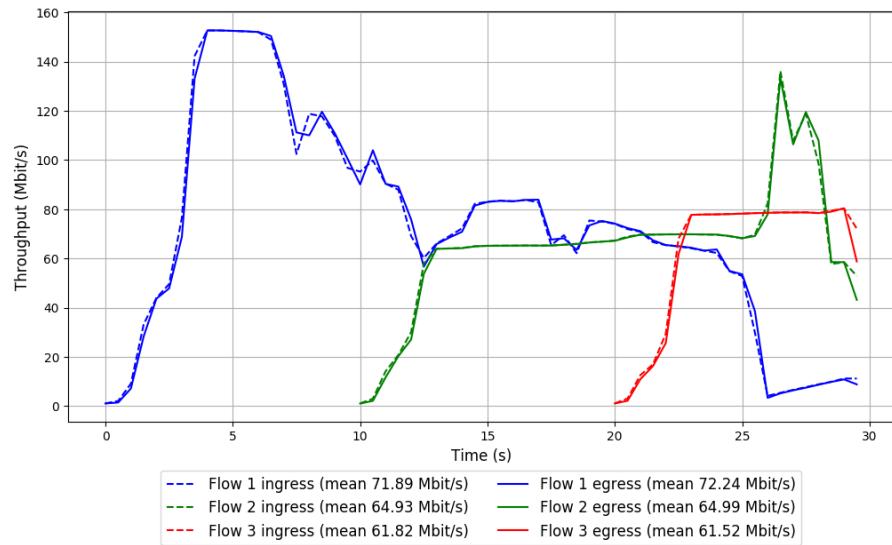
Run 4: Statistics of Copa

Start at: 2018-02-16 23:51:31

End at: 2018-02-16 23:52:01

```
# Below is generated by plot.py at 2018-02-17 06:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.39 Mbit/s
95th percentile per-packet one-way delay: 86.954 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.24 Mbit/s
95th percentile per-packet one-way delay: 86.737 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 87.081 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 61.52 Mbit/s
95th percentile per-packet one-way delay: 86.942 ms
Loss rate: 2.22%
```

Run 4: Report of Copa — Data Link



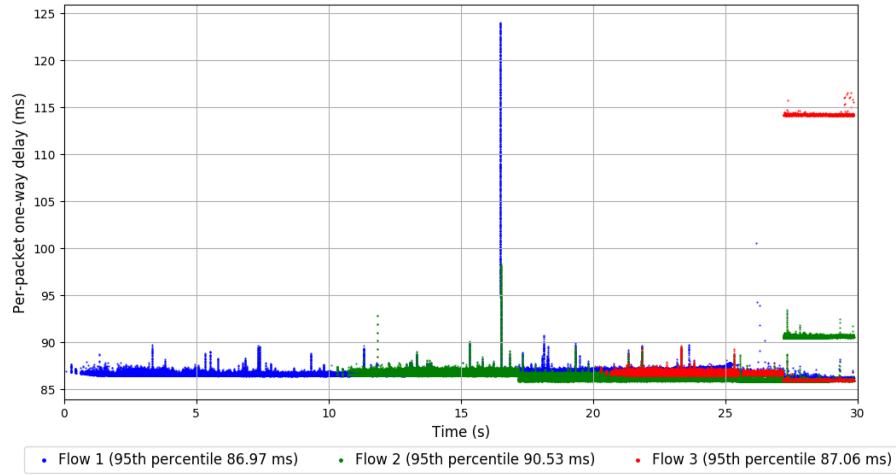
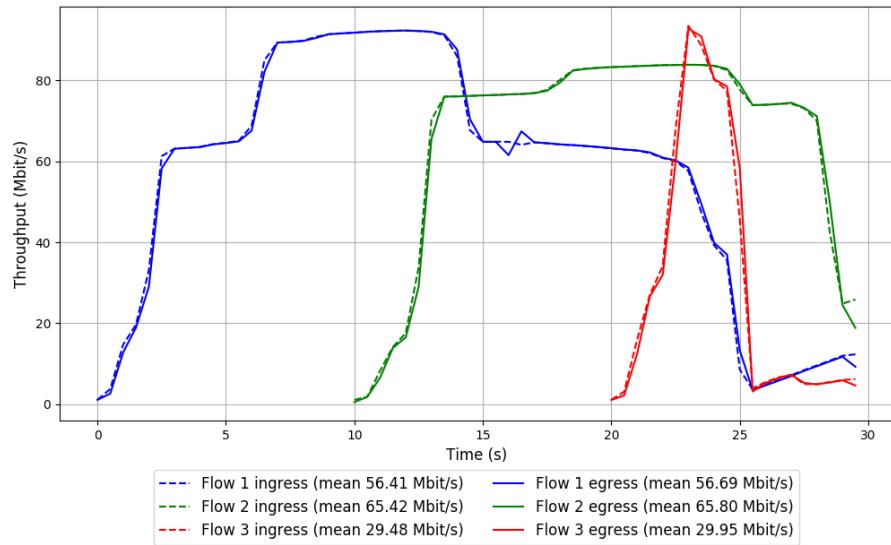
Run 5: Statistics of Copa

Start at: 2018-02-17 00:10:42

End at: 2018-02-17 00:11:12

```
# Below is generated by plot.py at 2018-02-17 06:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.12 Mbit/s
95th percentile per-packet one-way delay: 87.072 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 56.69 Mbit/s
95th percentile per-packet one-way delay: 86.968 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 65.80 Mbit/s
95th percentile per-packet one-way delay: 90.531 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 87.062 ms
Loss rate: 0.46%
```

Run 5: Report of Copa — Data Link



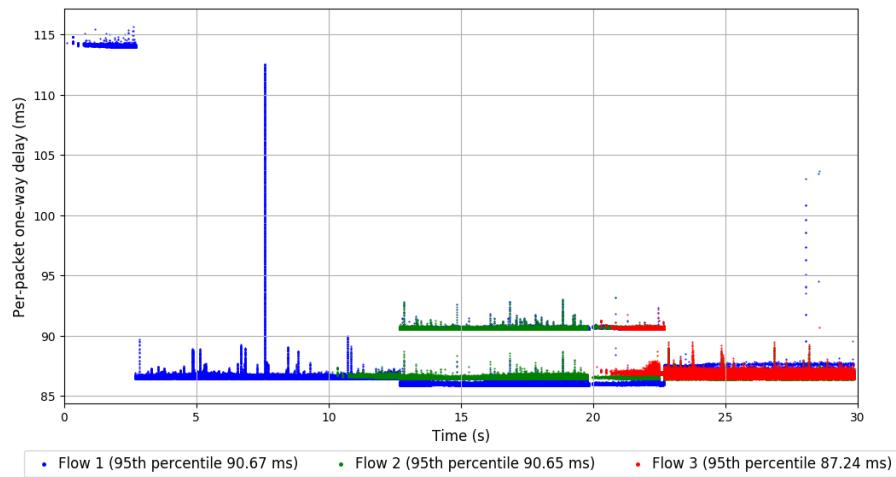
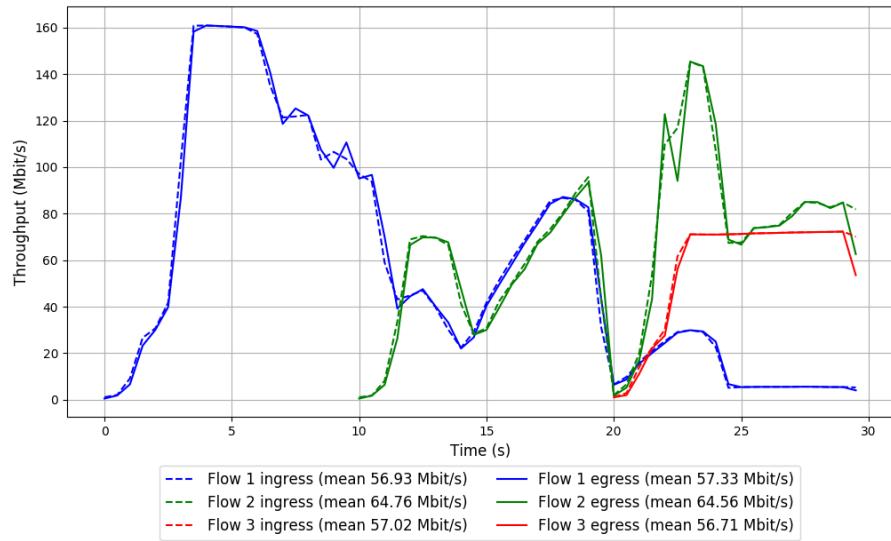
Run 6: Statistics of Copa

Start at: 2018-02-17 00:30:06

End at: 2018-02-17 00:30:36

```
# Below is generated by plot.py at 2018-02-17 06:09:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.73 Mbit/s
95th percentile per-packet one-way delay: 90.650 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 90.667 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 64.56 Mbit/s
95th percentile per-packet one-way delay: 90.653 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 87.241 ms
Loss rate: 2.57%
```

Run 6: Report of Copa — Data Link



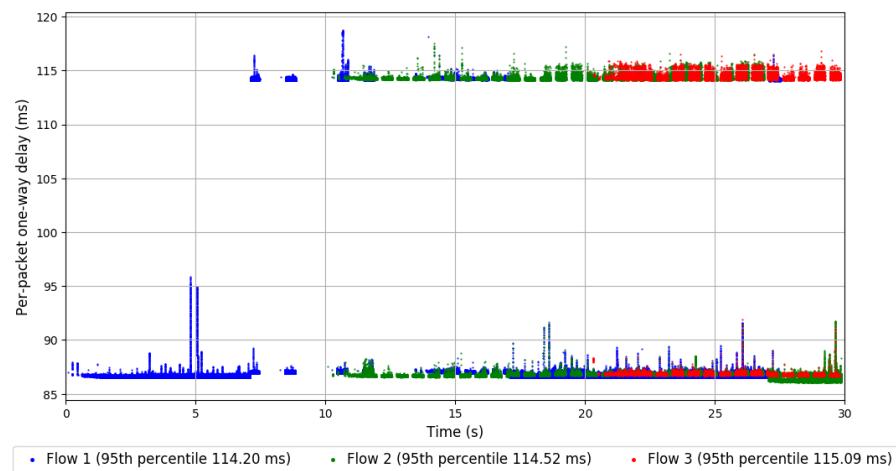
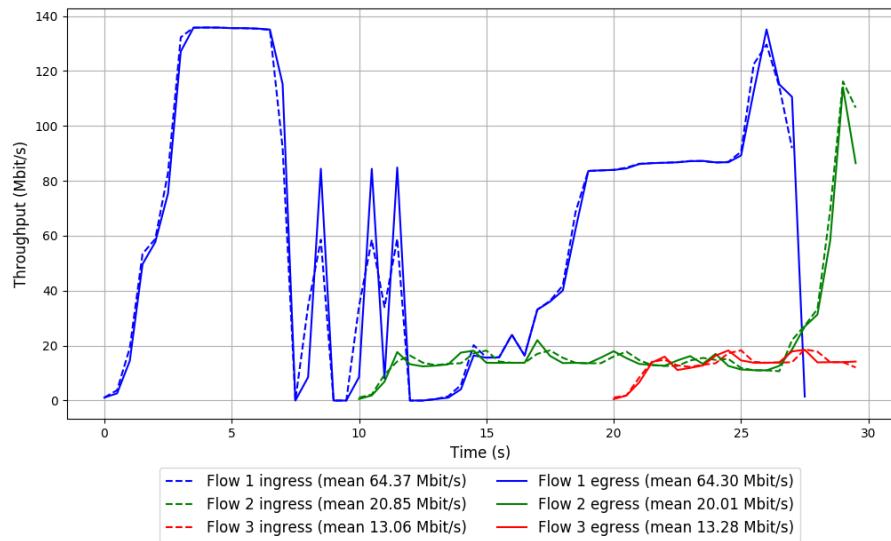
Run 7: Statistics of Copa

Start at: 2018-02-17 00:49:22

End at: 2018-02-17 00:49:52

```
# Below is generated by plot.py at 2018-02-17 06:09:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 114.308 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 64.30 Mbit/s
95th percentile per-packet one-way delay: 114.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 114.515 ms
Loss rate: 4.86%
-- Flow 3:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 115.093 ms
Loss rate: 0.73%
```

Run 7: Report of Copa — Data Link



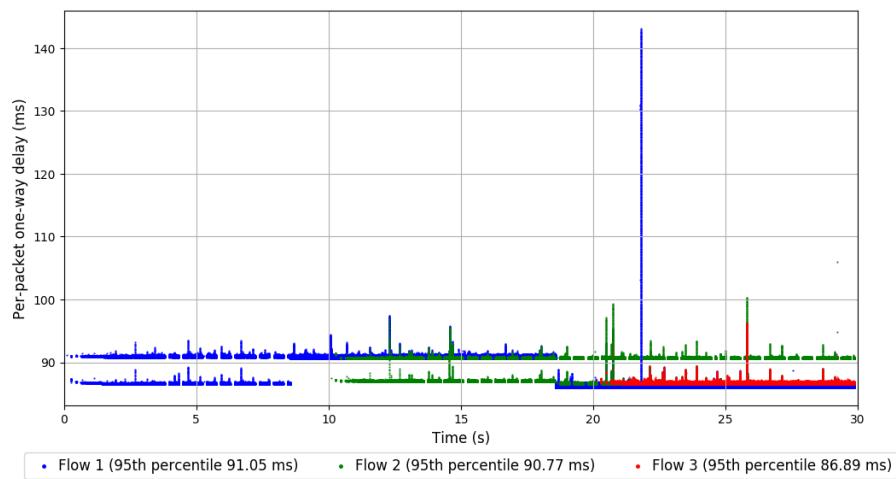
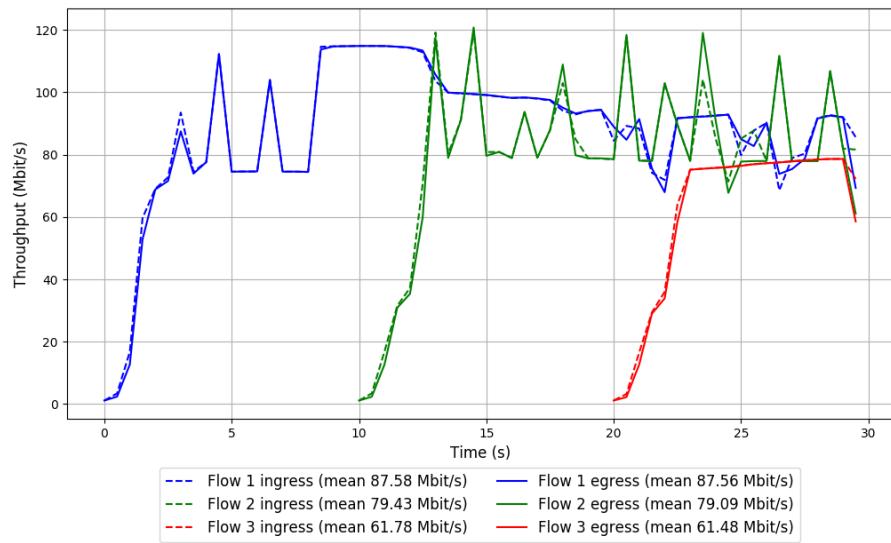
Run 8: Statistics of Copa

Start at: 2018-02-17 01:08:10

End at: 2018-02-17 01:08:40

```
# Below is generated by plot.py at 2018-02-17 06:12:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.18 Mbit/s
95th percentile per-packet one-way delay: 91.004 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 87.56 Mbit/s
95th percentile per-packet one-way delay: 91.054 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 79.09 Mbit/s
95th percentile per-packet one-way delay: 90.769 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 86.887 ms
Loss rate: 2.23%
```

Run 8: Report of Copa — Data Link



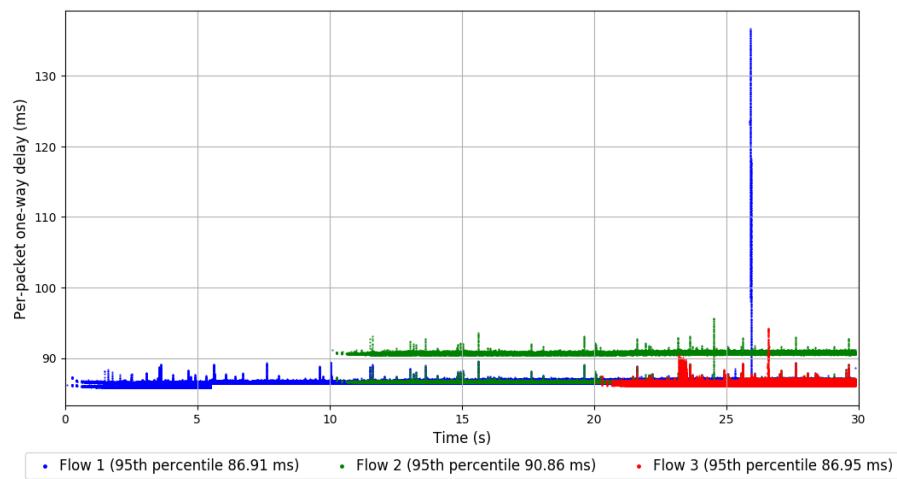
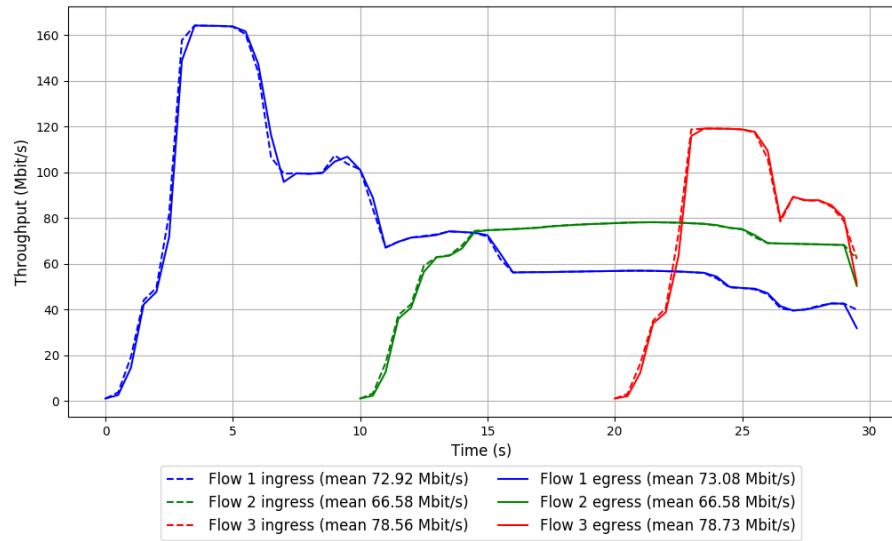
Run 9: Statistics of Copa

Start at: 2018-02-17 01:26:53

End at: 2018-02-17 01:27:23

```
# Below is generated by plot.py at 2018-02-17 06:12:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.00 Mbit/s
95th percentile per-packet one-way delay: 90.705 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 73.08 Mbit/s
95th percentile per-packet one-way delay: 86.907 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 90.856 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 78.73 Mbit/s
95th percentile per-packet one-way delay: 86.955 ms
Loss rate: 1.54%
```

Run 9: Report of Copa — Data Link



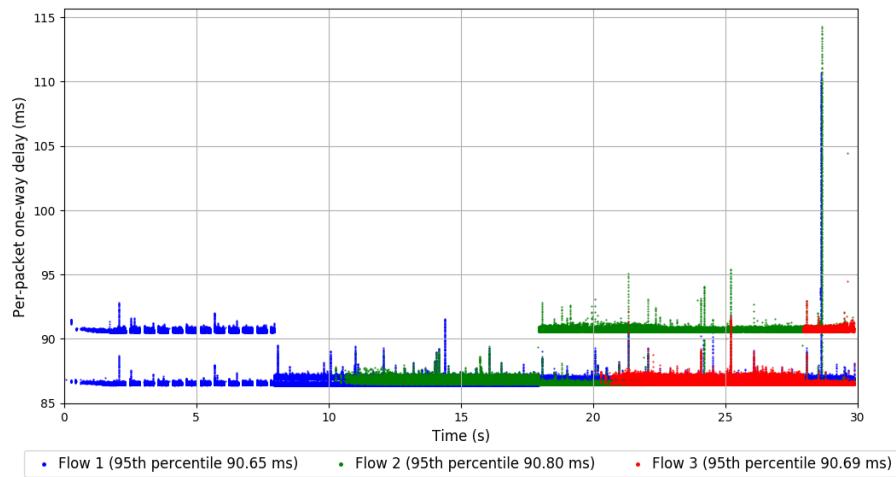
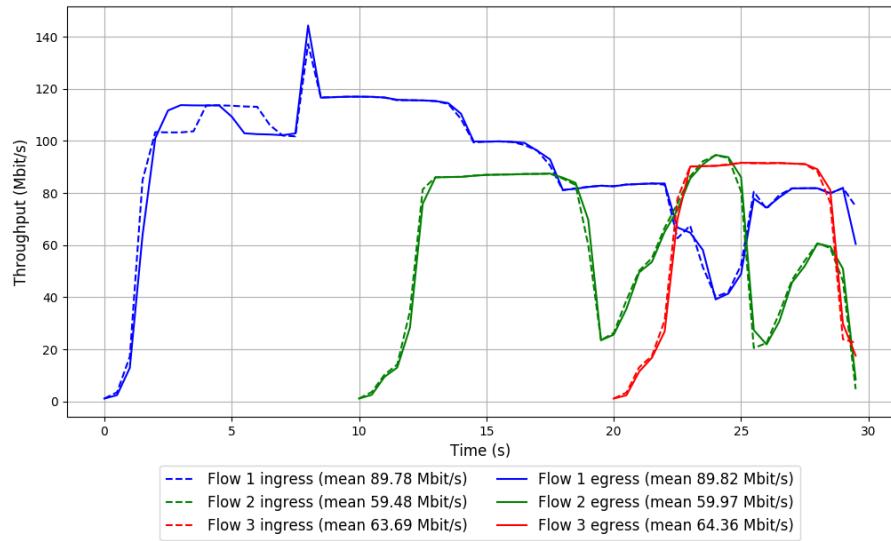
Run 10: Statistics of Copa

Start at: 2018-02-17 01:45:41

End at: 2018-02-17 01:46:11

```
# Below is generated by plot.py at 2018-02-17 06:13:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 150.72 Mbit/s
95th percentile per-packet one-way delay: 90.706 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 89.82 Mbit/s
95th percentile per-packet one-way delay: 90.646 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 59.97 Mbit/s
95th percentile per-packet one-way delay: 90.798 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 64.36 Mbit/s
95th percentile per-packet one-way delay: 90.687 ms
Loss rate: 0.71%
```

Run 10: Report of Copa — Data Link

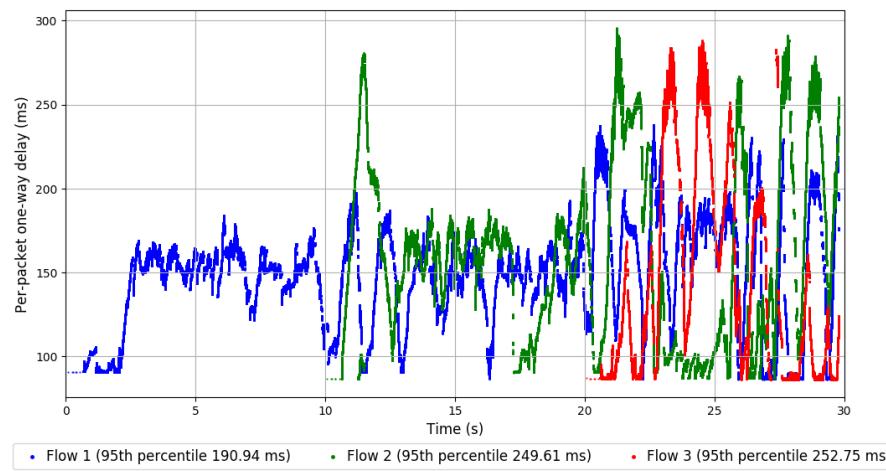
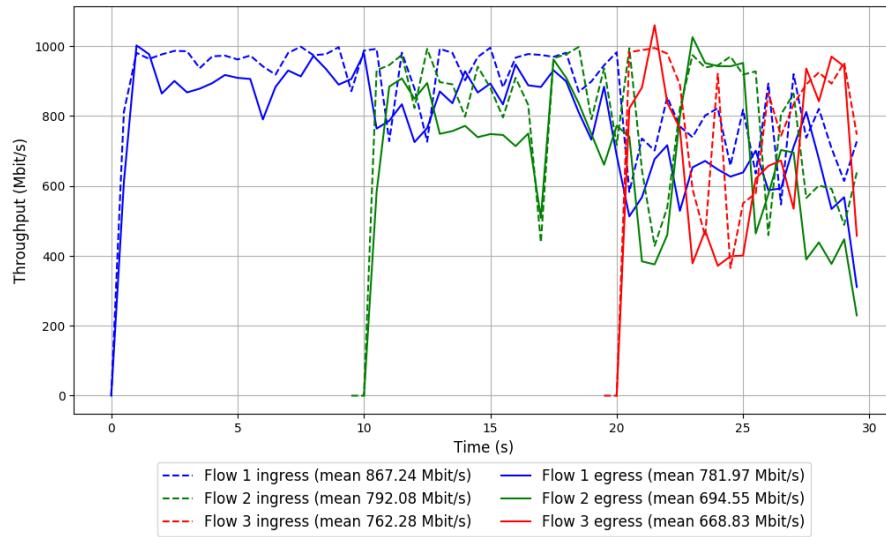


```
Run 1: Statistics of FillP

Start at: 2018-02-16 23:04:45
End at: 2018-02-16 23:05:15

# Below is generated by plot.py at 2018-02-17 06:37:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1462.52 Mbit/s
95th percentile per-packet one-way delay: 220.606 ms
Loss rate: 11.88%
-- Flow 1:
Average throughput: 781.97 Mbit/s
95th percentile per-packet one-way delay: 190.941 ms
Loss rate: 10.45%
-- Flow 2:
Average throughput: 694.55 Mbit/s
95th percentile per-packet one-way delay: 249.610 ms
Loss rate: 13.20%
-- Flow 3:
Average throughput: 668.83 Mbit/s
95th percentile per-packet one-way delay: 252.748 ms
Loss rate: 14.04%
```

Run 1: Report of FillP — Data Link



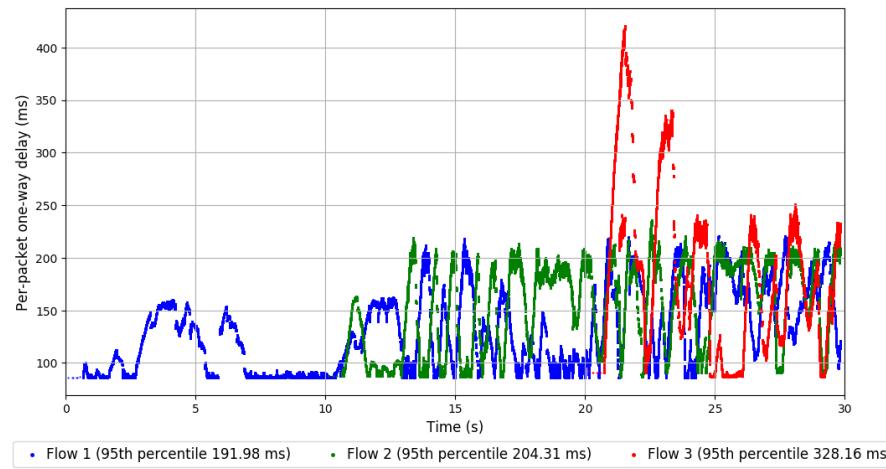
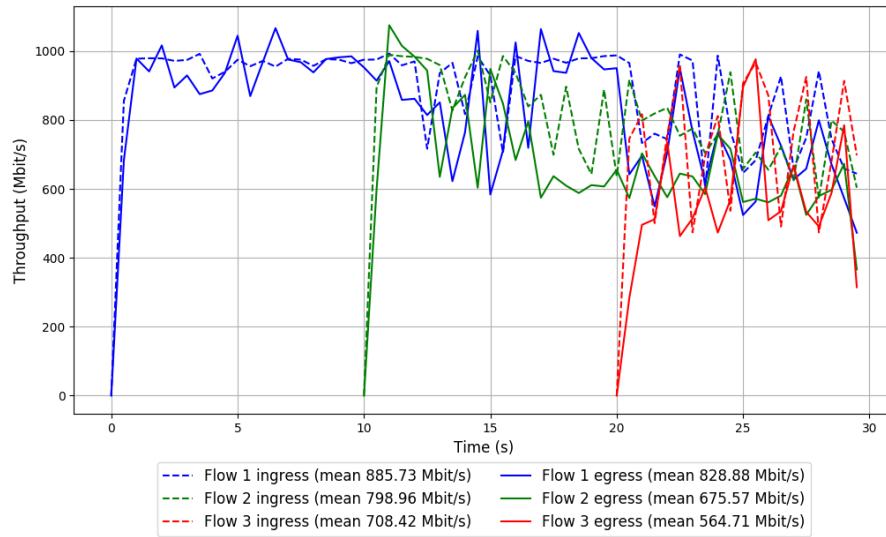
Run 2: Statistics of FillP

Start at: 2018-02-16 23:23:56

End at: 2018-02-16 23:24:26

```
# Below is generated by plot.py at 2018-02-17 06:37:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1460.70 Mbit/s
95th percentile per-packet one-way delay: 207.067 ms
Loss rate: 12.02%
-- Flow 1:
Average throughput: 828.88 Mbit/s
95th percentile per-packet one-way delay: 191.981 ms
Loss rate: 6.96%
-- Flow 2:
Average throughput: 675.57 Mbit/s
95th percentile per-packet one-way delay: 204.310 ms
Loss rate: 16.19%
-- Flow 3:
Average throughput: 564.71 Mbit/s
95th percentile per-packet one-way delay: 328.164 ms
Loss rate: 21.74%
```

Run 2: Report of FillP — Data Link



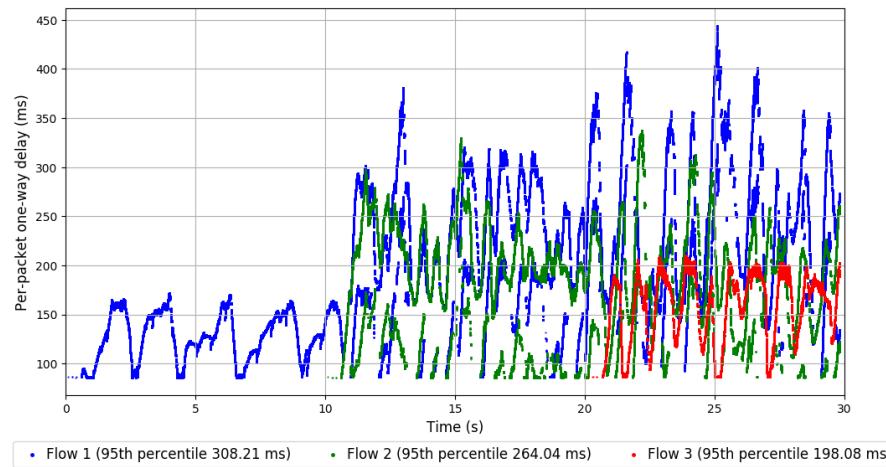
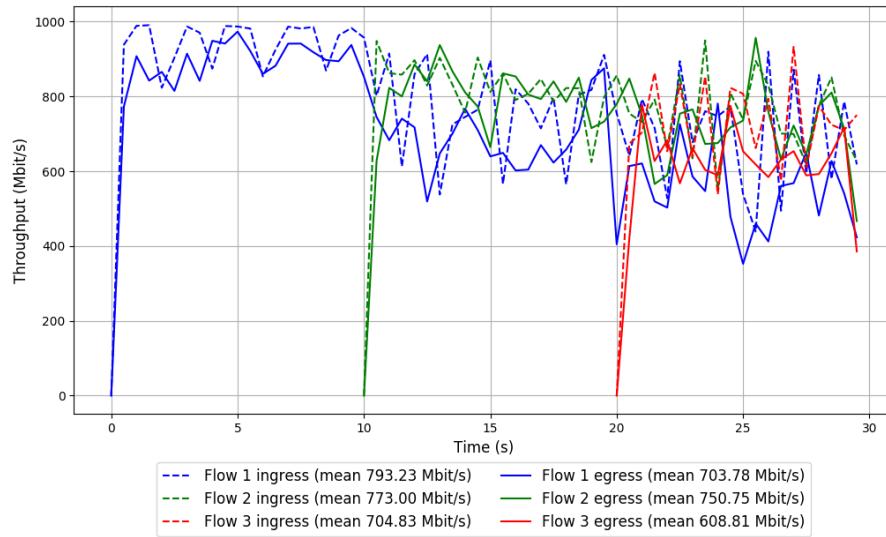
Run 3: Statistics of FillP

Start at: 2018-02-16 23:43:00

End at: 2018-02-16 23:43:30

```
# Below is generated by plot.py at 2018-02-17 06:37:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1399.95 Mbit/s
95th percentile per-packet one-way delay: 291.033 ms
Loss rate: 9.73%
-- Flow 1:
Average throughput: 703.78 Mbit/s
95th percentile per-packet one-way delay: 308.211 ms
Loss rate: 11.87%
-- Flow 2:
Average throughput: 750.75 Mbit/s
95th percentile per-packet one-way delay: 264.042 ms
Loss rate: 3.86%
-- Flow 3:
Average throughput: 608.81 Mbit/s
95th percentile per-packet one-way delay: 198.076 ms
Loss rate: 15.39%
```

Run 3: Report of FillP — Data Link



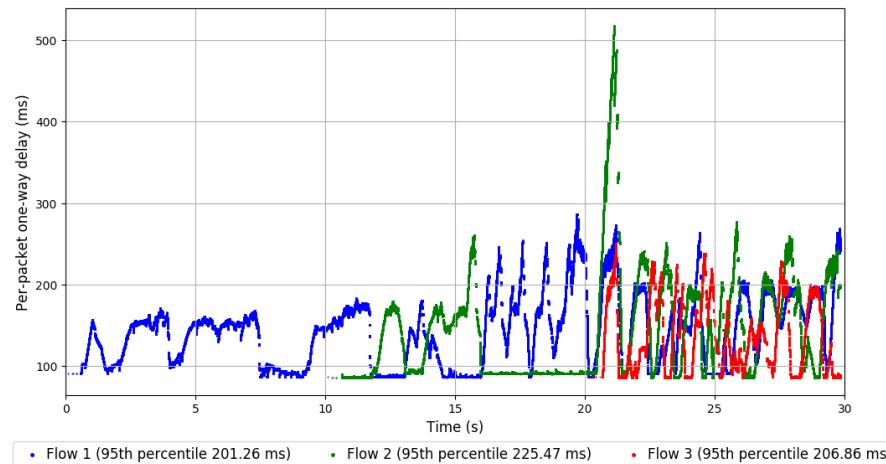
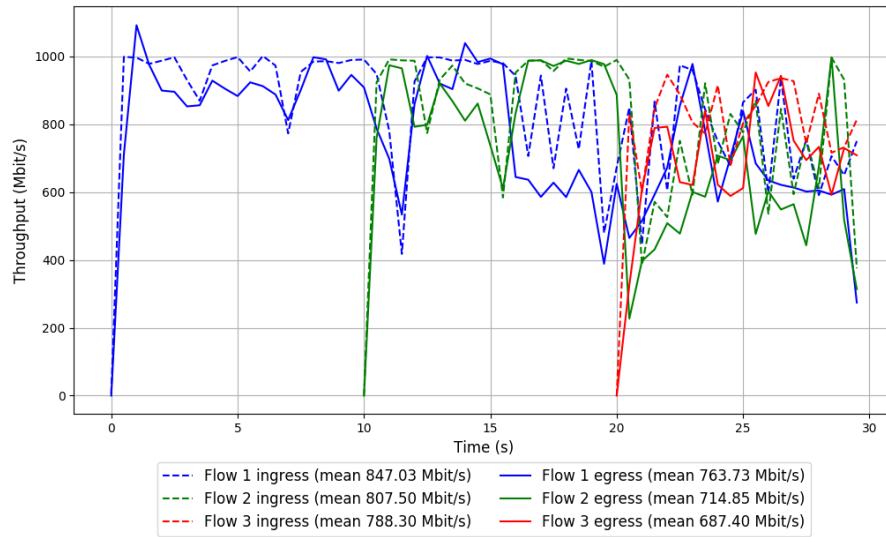
Run 4: Statistics of FillP

Start at: 2018-02-17 00:02:07

End at: 2018-02-17 00:02:37

```
# Below is generated by plot.py at 2018-02-17 06:39:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1463.20 Mbit/s
95th percentile per-packet one-way delay: 211.396 ms
Loss rate: 11.61%
-- Flow 1:
Average throughput: 763.73 Mbit/s
95th percentile per-packet one-way delay: 201.261 ms
Loss rate: 10.37%
-- Flow 2:
Average throughput: 714.85 Mbit/s
95th percentile per-packet one-way delay: 225.465 ms
Loss rate: 12.25%
-- Flow 3:
Average throughput: 687.40 Mbit/s
95th percentile per-packet one-way delay: 206.860 ms
Loss rate: 14.33%
```

Run 4: Report of FillP — Data Link



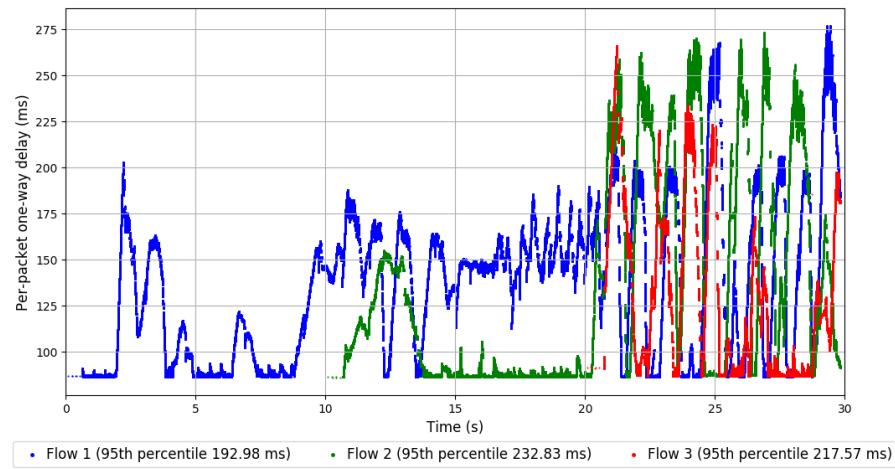
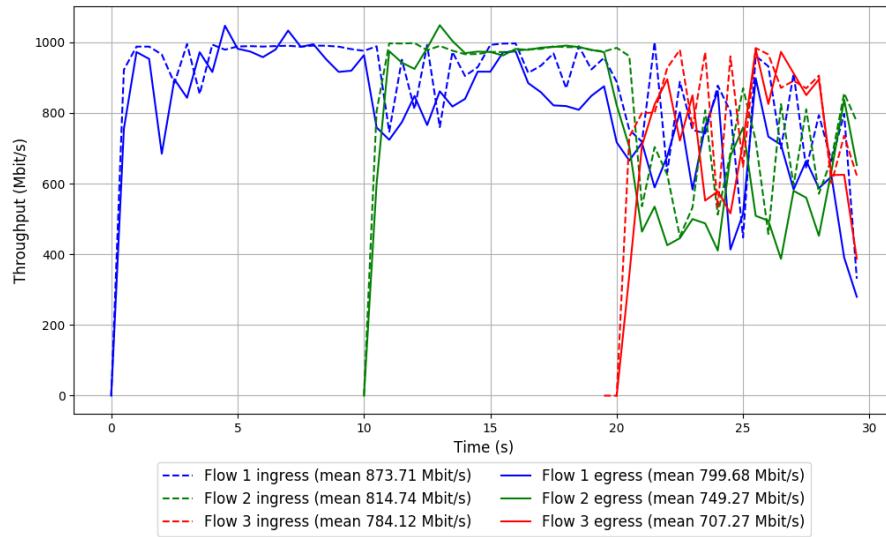
Run 5: Statistics of FillP

Start at: 2018-02-17 00:21:27

End at: 2018-02-17 00:21:57

```
# Below is generated by plot.py at 2018-02-17 06:40:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1528.40 Mbit/s
95th percentile per-packet one-way delay: 213.583 ms
Loss rate: 9.33%
-- Flow 1:
Average throughput: 799.68 Mbit/s
95th percentile per-packet one-way delay: 192.976 ms
Loss rate: 9.01%
-- Flow 2:
Average throughput: 749.27 Mbit/s
95th percentile per-packet one-way delay: 232.826 ms
Loss rate: 8.84%
-- Flow 3:
Average throughput: 707.27 Mbit/s
95th percentile per-packet one-way delay: 217.567 ms
Loss rate: 11.43%
```

Run 5: Report of FillP — Data Link

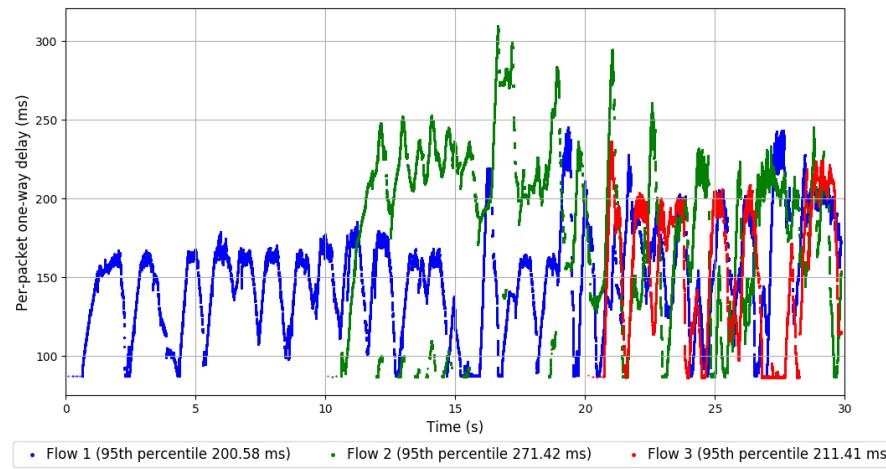
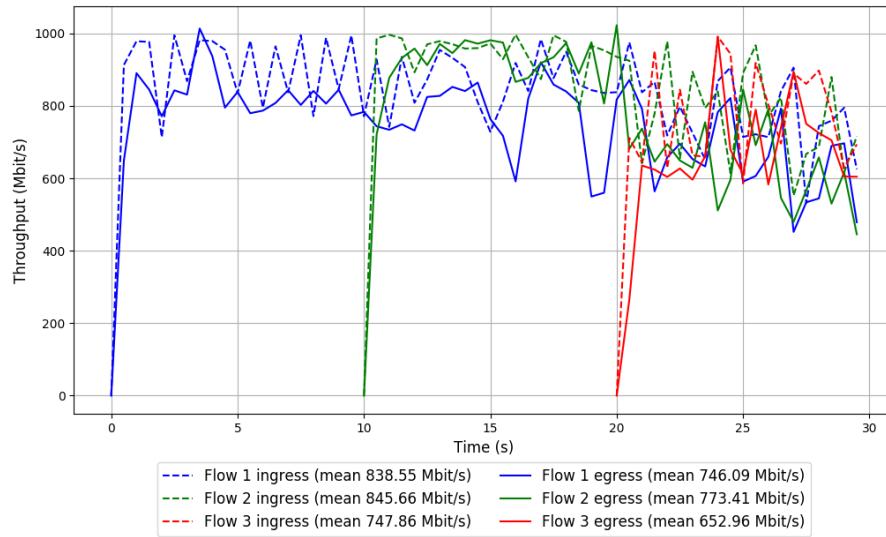


Run 6: Statistics of FillP

Start at: 2018-02-17 00:40:51
End at: 2018-02-17 00:41:21

```
# Below is generated by plot.py at 2018-02-17 06:42:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1472.56 Mbit/s
95th percentile per-packet one-way delay: 233.411 ms
Loss rate: 11.20%
-- Flow 1:
Average throughput: 746.09 Mbit/s
95th percentile per-packet one-way delay: 200.577 ms
Loss rate: 11.55%
-- Flow 2:
Average throughput: 773.41 Mbit/s
95th percentile per-packet one-way delay: 271.421 ms
Loss rate: 9.34%
-- Flow 3:
Average throughput: 652.96 Mbit/s
95th percentile per-packet one-way delay: 211.410 ms
Loss rate: 14.23%
```

Run 6: Report of FillP — Data Link



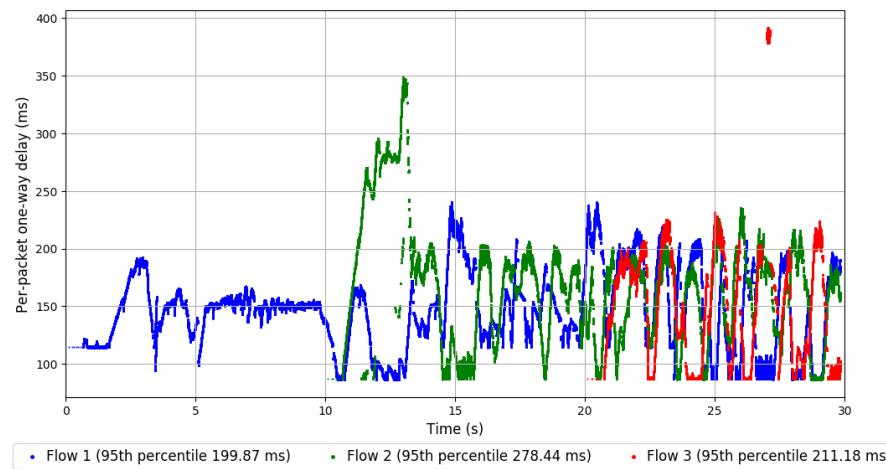
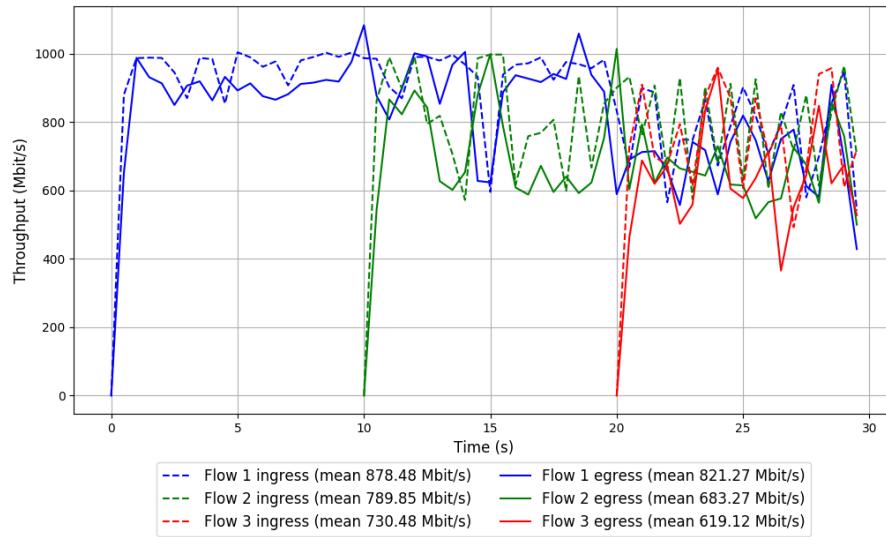
Run 7: Statistics of FillP

Start at: 2018-02-17 00:59:46

End at: 2018-02-17 01:00:16

```
# Below is generated by plot.py at 2018-02-17 06:42:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1477.83 Mbit/s
95th percentile per-packet one-way delay: 215.349 ms
Loss rate: 10.82%
-- Flow 1:
Average throughput: 821.27 Mbit/s
95th percentile per-packet one-way delay: 199.870 ms
Loss rate: 7.14%
-- Flow 2:
Average throughput: 683.27 Mbit/s
95th percentile per-packet one-way delay: 278.445 ms
Loss rate: 14.25%
-- Flow 3:
Average throughput: 619.12 Mbit/s
95th percentile per-packet one-way delay: 211.175 ms
Loss rate: 16.74%
```

Run 7: Report of FillP — Data Link



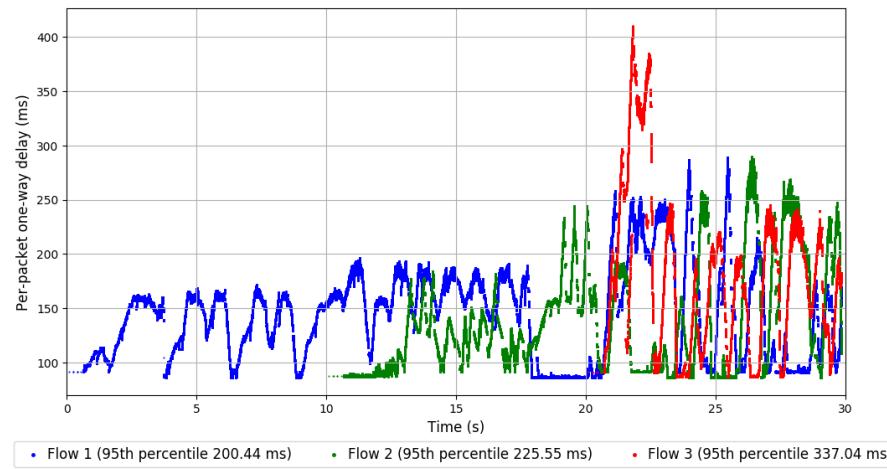
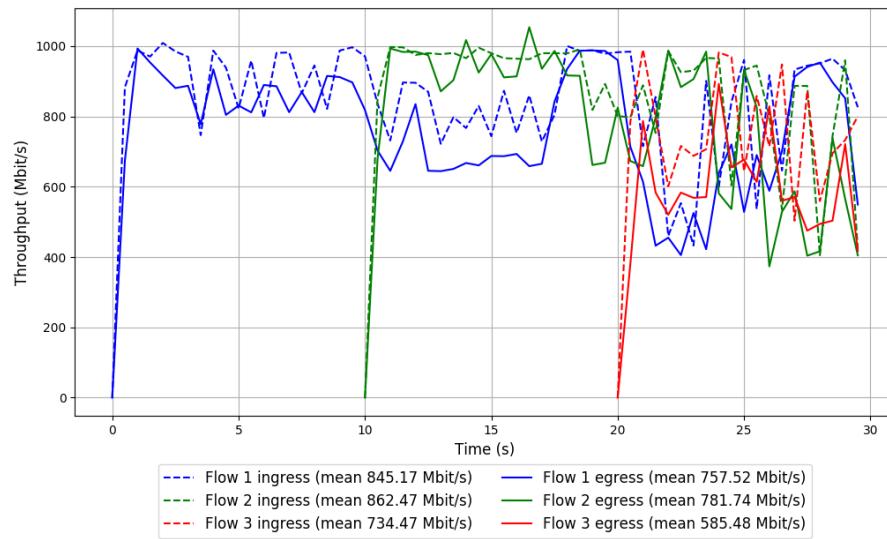
Run 8: Statistics of FillP

Start at: 2018-02-17 01:18:36

End at: 2018-02-17 01:19:06

```
# Below is generated by plot.py at 2018-02-17 06:43:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1467.93 Mbit/s
95th percentile per-packet one-way delay: 228.202 ms
Loss rate: 12.23%
-- Flow 1:
Average throughput: 757.52 Mbit/s
95th percentile per-packet one-way delay: 200.435 ms
Loss rate: 10.90%
-- Flow 2:
Average throughput: 781.74 Mbit/s
95th percentile per-packet one-way delay: 225.552 ms
Loss rate: 10.15%
-- Flow 3:
Average throughput: 585.48 Mbit/s
95th percentile per-packet one-way delay: 337.043 ms
Loss rate: 21.72%
```

Run 8: Report of FillP — Data Link



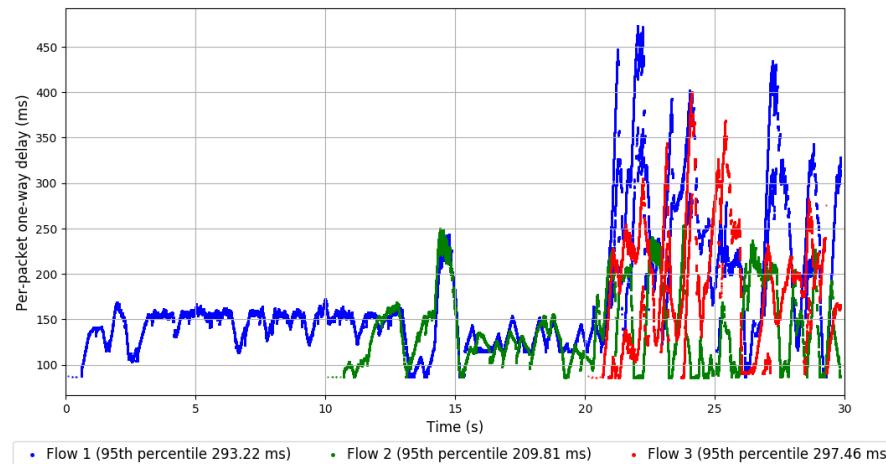
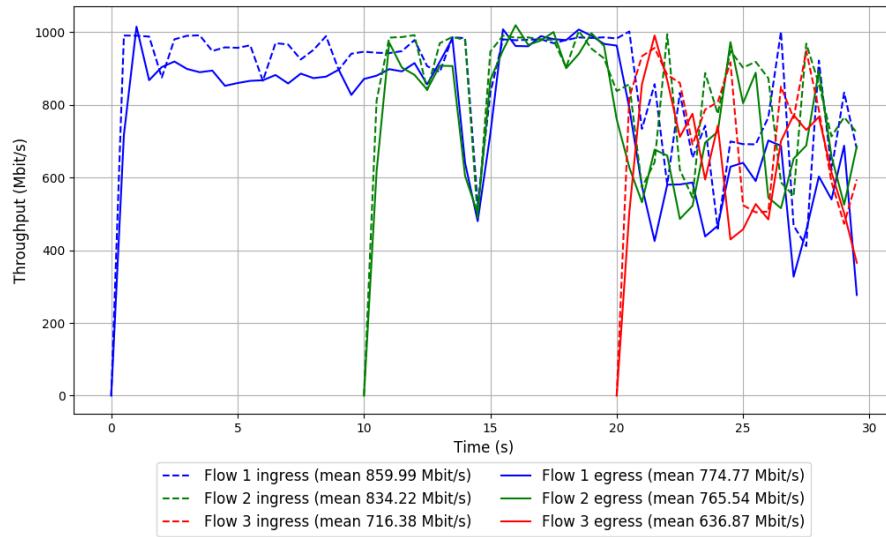
Run 9: Statistics of FillP

Start at: 2018-02-17 01:37:24

End at: 2018-02-17 01:37:54

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1491.18 Mbit/s
95th percentile per-packet one-way delay: 263.547 ms
Loss rate: 10.28%
-- Flow 1:
Average throughput: 774.77 Mbit/s
95th percentile per-packet one-way delay: 293.218 ms
Loss rate: 10.43%
-- Flow 2:
Average throughput: 765.54 Mbit/s
95th percentile per-packet one-way delay: 209.810 ms
Loss rate: 9.03%
-- Flow 3:
Average throughput: 636.87 Mbit/s
95th percentile per-packet one-way delay: 297.458 ms
Loss rate: 12.67%
```

Run 9: Report of FillP — Data Link



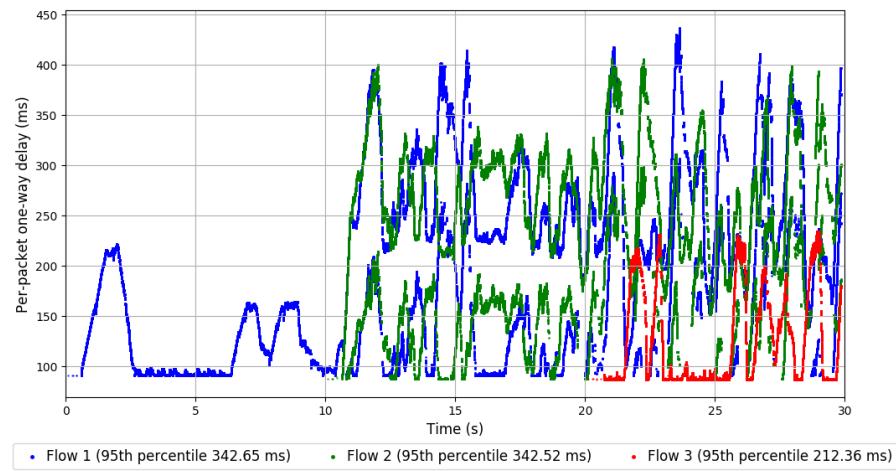
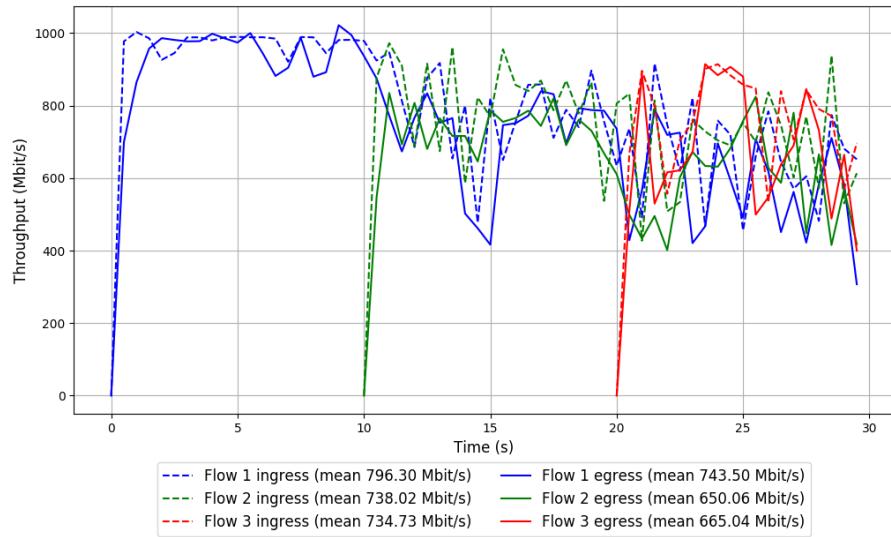
Run 10: Statistics of FillP

Start at: 2018-02-17 01:55:48

End at: 2018-02-17 01:56:18

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1392.09 Mbit/s
95th percentile per-packet one-way delay: 333.045 ms
Loss rate: 9.57%
-- Flow 1:
Average throughput: 743.50 Mbit/s
95th percentile per-packet one-way delay: 342.650 ms
Loss rate: 7.18%
-- Flow 2:
Average throughput: 650.06 Mbit/s
95th percentile per-packet one-way delay: 342.525 ms
Loss rate: 12.69%
-- Flow 3:
Average throughput: 665.04 Mbit/s
95th percentile per-packet one-way delay: 212.357 ms
Loss rate: 11.08%
```

Run 10: Report of FillP — Data Link

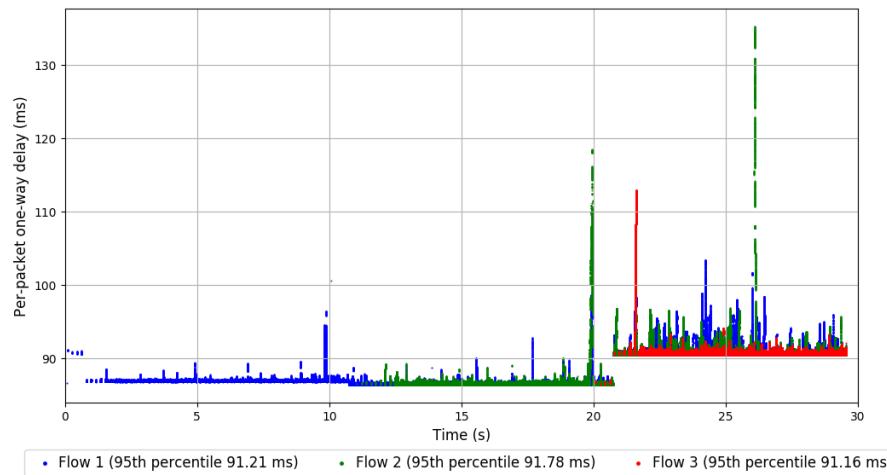
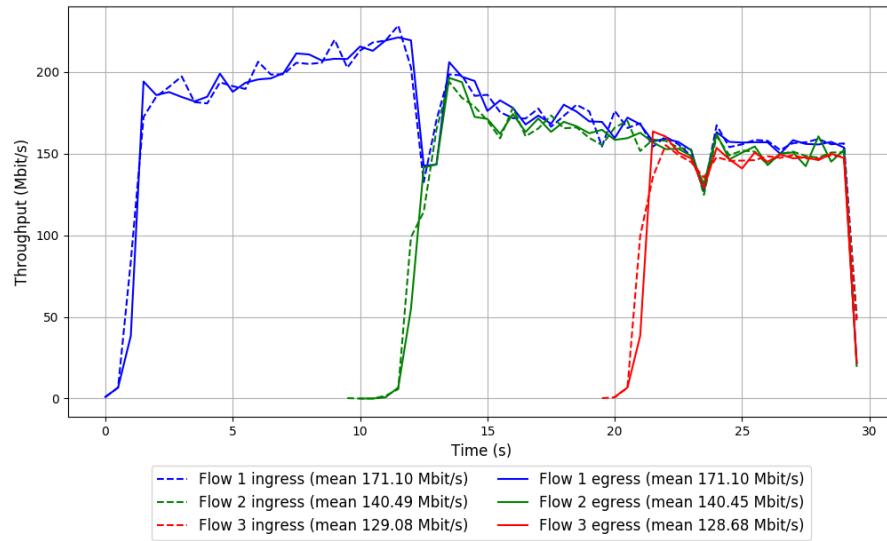


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 23:03:38
End at: 2018-02-16 23:04:08

# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.46 Mbit/s
95th percentile per-packet one-way delay: 91.351 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 171.10 Mbit/s
95th percentile per-packet one-way delay: 91.208 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 140.45 Mbit/s
95th percentile per-packet one-way delay: 91.785 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 128.68 Mbit/s
95th percentile per-packet one-way delay: 91.157 ms
Loss rate: 2.14%
```

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



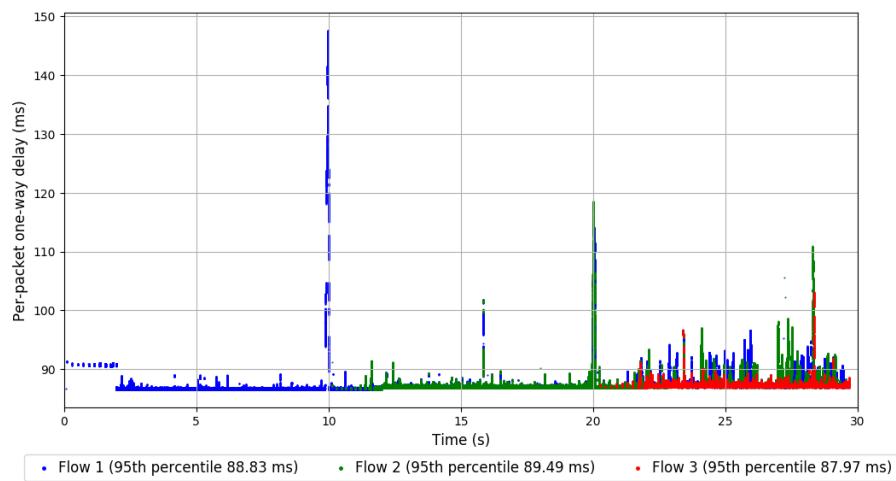
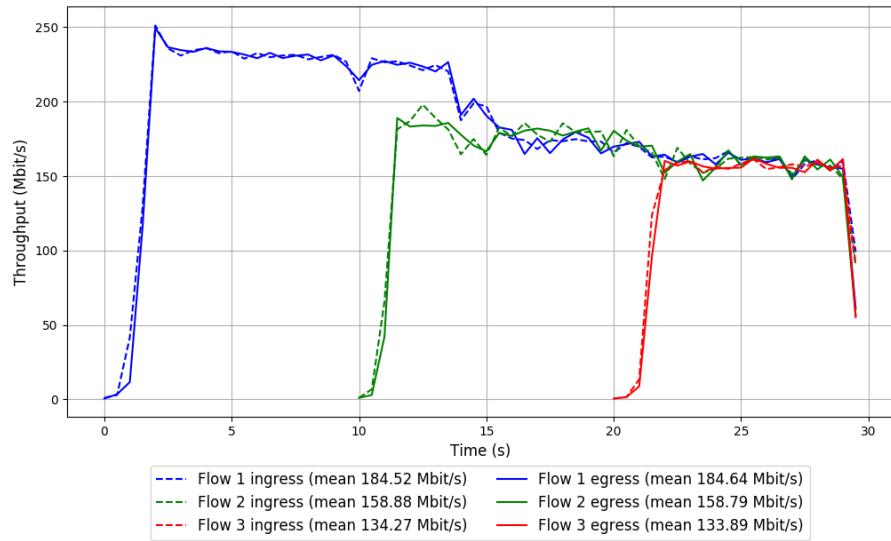
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 23:22:47

End at: 2018-02-16 23:23:17

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.17 Mbit/s
95th percentile per-packet one-way delay: 88.816 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 184.64 Mbit/s
95th percentile per-packet one-way delay: 88.828 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 158.79 Mbit/s
95th percentile per-packet one-way delay: 89.489 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 133.89 Mbit/s
95th percentile per-packet one-way delay: 87.966 ms
Loss rate: 2.37%
```

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



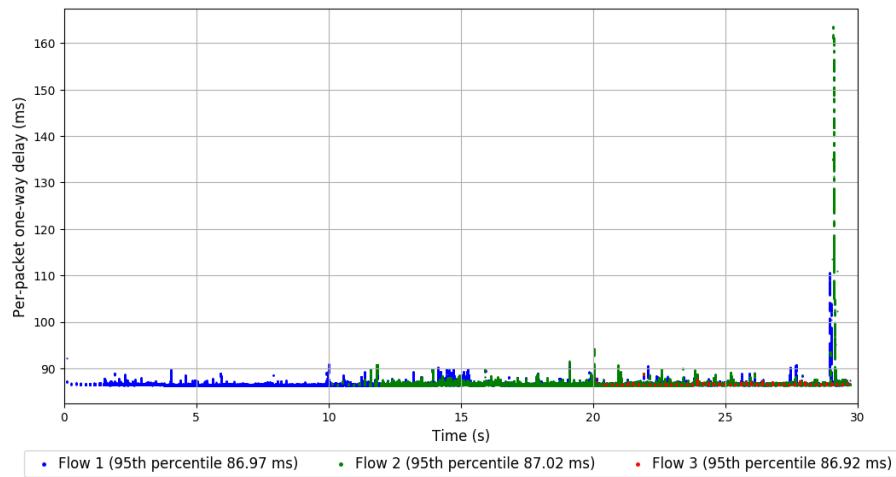
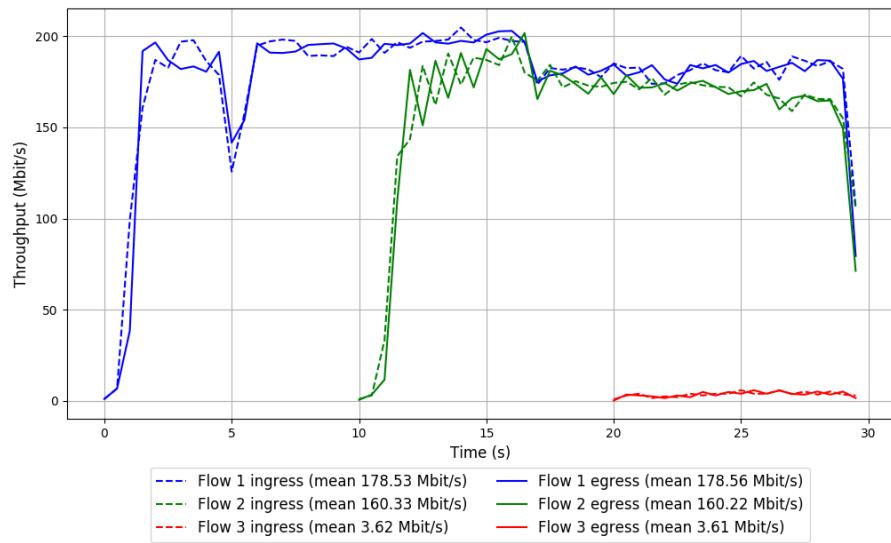
Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 23:41:55

End at: 2018-02-16 23:42:25

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.63 Mbit/s
95th percentile per-packet one-way delay: 86.991 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 178.56 Mbit/s
95th percentile per-packet one-way delay: 86.972 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 160.22 Mbit/s
95th percentile per-packet one-way delay: 87.022 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 86.923 ms
Loss rate: 2.32%
```

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



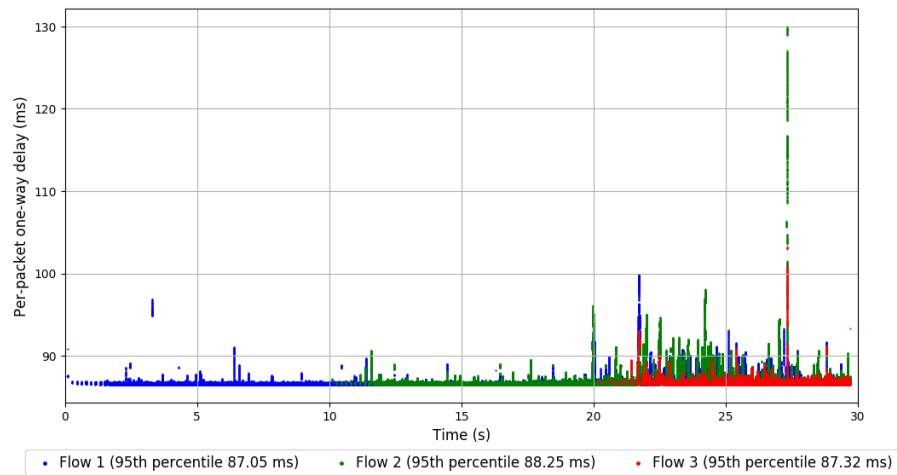
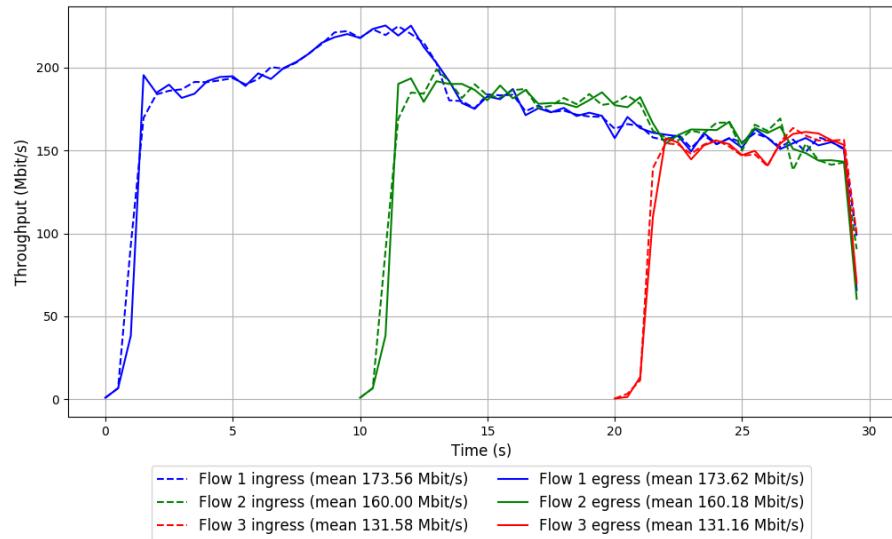
Run 4: Statistics of Indigo-1-32

Start at: 2018-02-17 00:00:58

End at: 2018-02-17 00:01:28

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 321.76 Mbit/s
95th percentile per-packet one-way delay: 87.401 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 173.62 Mbit/s
95th percentile per-packet one-way delay: 87.046 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 160.18 Mbit/s
95th percentile per-packet one-way delay: 88.246 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 131.16 Mbit/s
95th percentile per-packet one-way delay: 87.323 ms
Loss rate: 2.17%
```

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



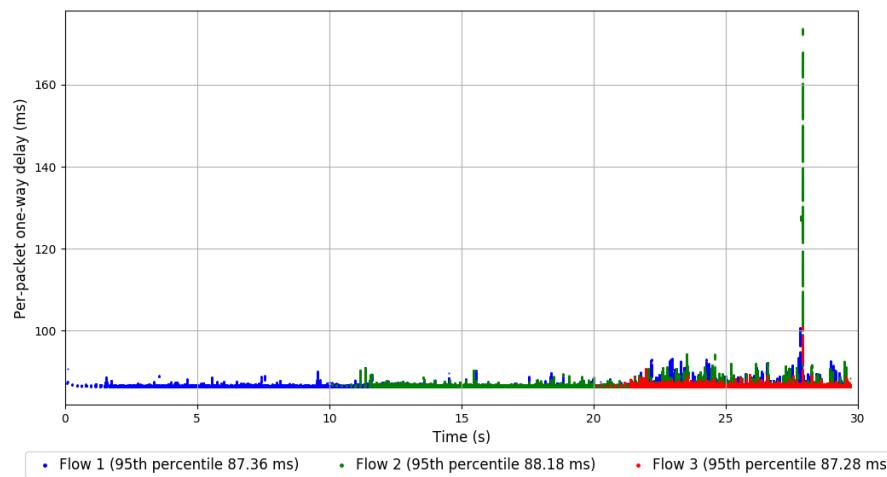
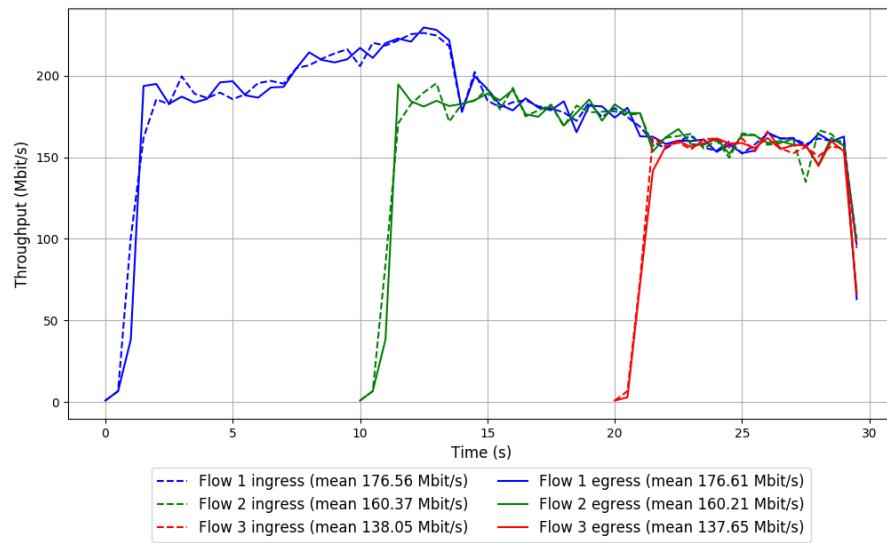
Run 5: Statistics of Indigo-1-32

Start at: 2018-02-17 00:20:17

End at: 2018-02-17 00:20:47

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.20 Mbit/s
95th percentile per-packet one-way delay: 87.594 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 176.61 Mbit/s
95th percentile per-packet one-way delay: 87.358 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 160.21 Mbit/s
95th percentile per-packet one-way delay: 88.176 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 137.65 Mbit/s
95th percentile per-packet one-way delay: 87.277 ms
Loss rate: 2.08%
```

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



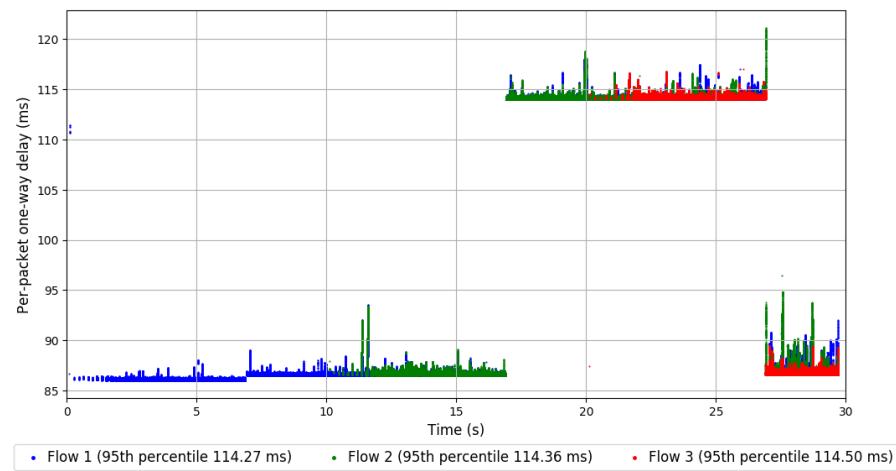
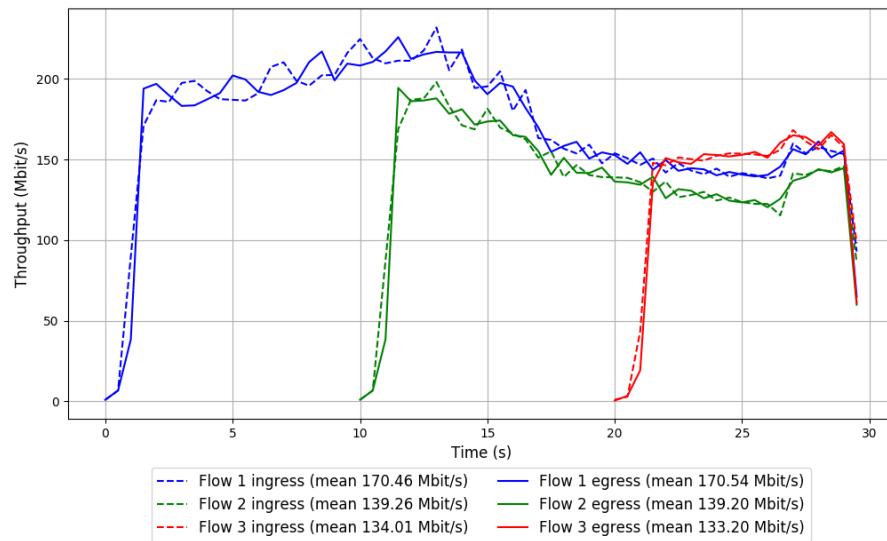
Run 6: Statistics of Indigo-1-32

Start at: 2018-02-17 00:39:42

End at: 2018-02-17 00:40:12

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.80 Mbit/s
95th percentile per-packet one-way delay: 114.330 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 170.54 Mbit/s
95th percentile per-packet one-way delay: 114.265 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 139.20 Mbit/s
95th percentile per-packet one-way delay: 114.360 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 133.20 Mbit/s
95th percentile per-packet one-way delay: 114.501 ms
Loss rate: 2.38%
```

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



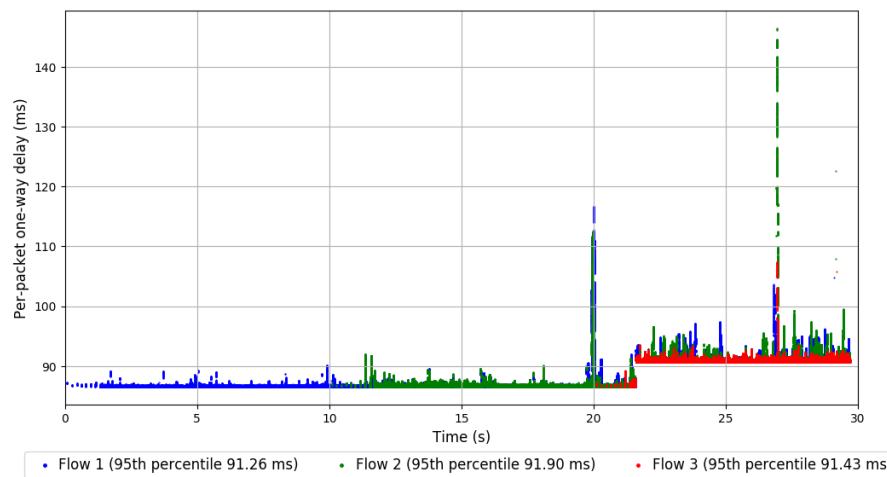
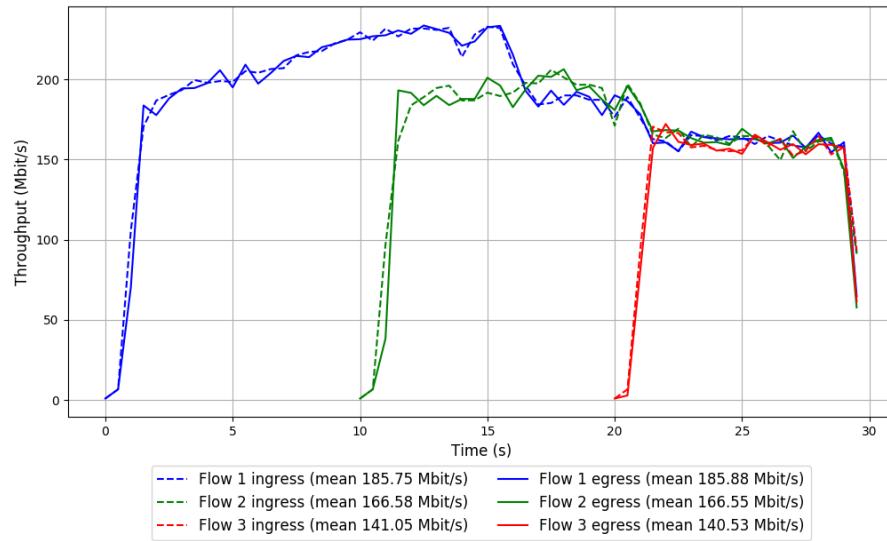
Run 7: Statistics of Indigo-1-32

Start at: 2018-02-17 00:58:37

End at: 2018-02-17 00:59:07

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.55 Mbit/s
95th percentile per-packet one-way delay: 91.451 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 185.88 Mbit/s
95th percentile per-packet one-way delay: 91.258 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 166.55 Mbit/s
95th percentile per-packet one-way delay: 91.897 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 140.53 Mbit/s
95th percentile per-packet one-way delay: 91.430 ms
Loss rate: 2.14%
```

Run 7: Report of Indigo-1-32 — Data Link



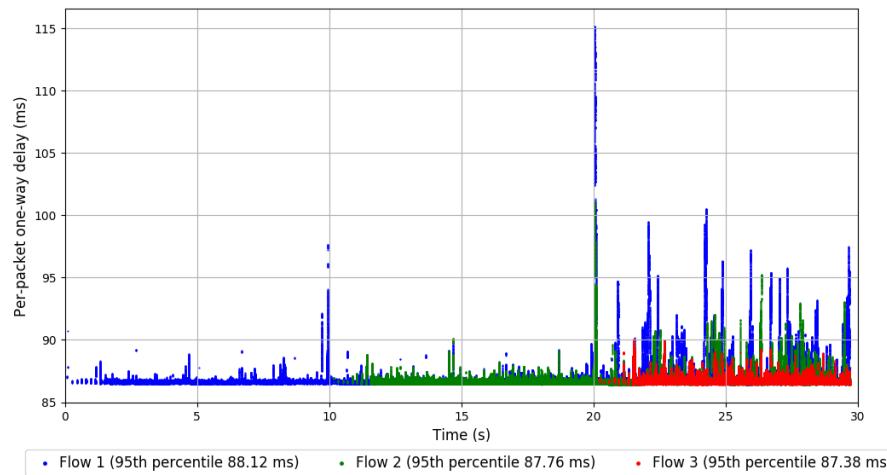
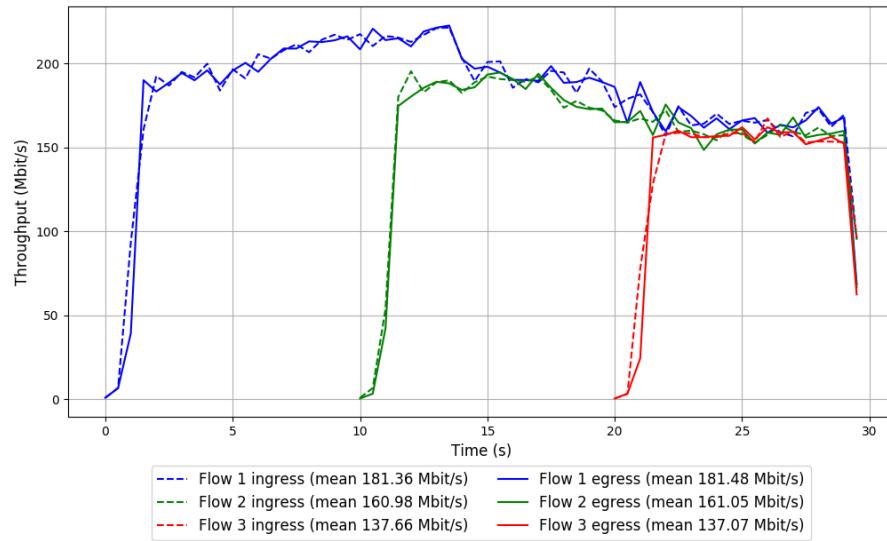
Run 8: Statistics of Indigo-1-32

Start at: 2018-02-17 01:17:28

End at: 2018-02-17 01:17:58

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.63 Mbit/s
95th percentile per-packet one-way delay: 87.804 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 181.48 Mbit/s
95th percentile per-packet one-way delay: 88.124 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 161.05 Mbit/s
95th percentile per-packet one-way delay: 87.761 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 137.07 Mbit/s
95th percentile per-packet one-way delay: 87.375 ms
Loss rate: 2.20%
```

Run 8: Report of Indigo-1-32 — Data Link



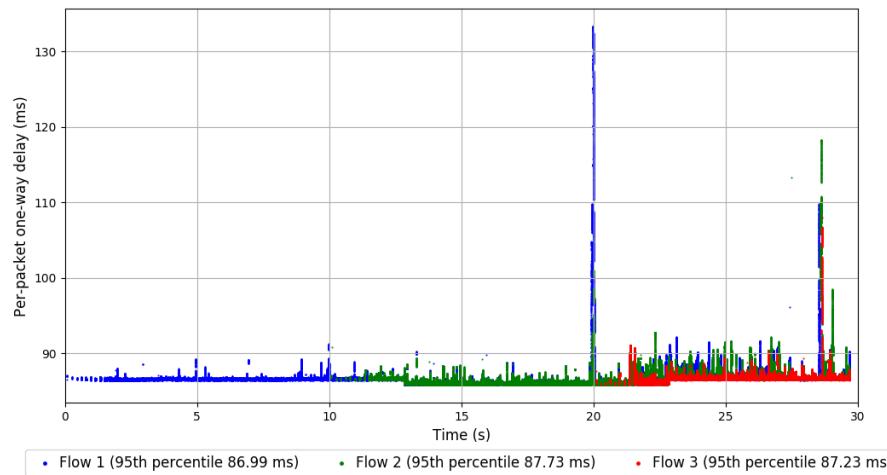
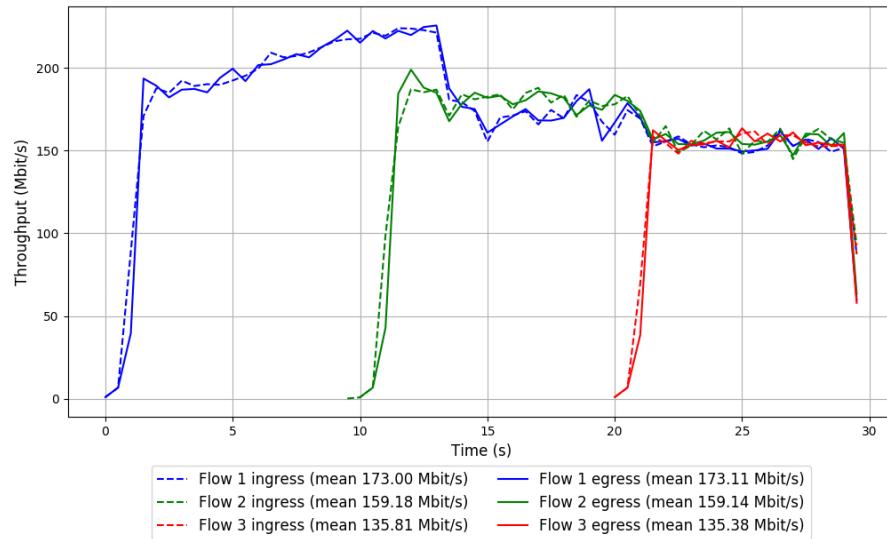
Run 9: Statistics of Indigo-1-32

Start at: 2018-02-17 01:36:16

End at: 2018-02-17 01:36:46

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.38 Mbit/s
95th percentile per-packet one-way delay: 87.269 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 173.11 Mbit/s
95th percentile per-packet one-way delay: 86.990 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 159.14 Mbit/s
95th percentile per-packet one-way delay: 87.731 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 135.38 Mbit/s
95th percentile per-packet one-way delay: 87.232 ms
Loss rate: 2.07%
```

Run 9: Report of Indigo-1-32 — Data Link

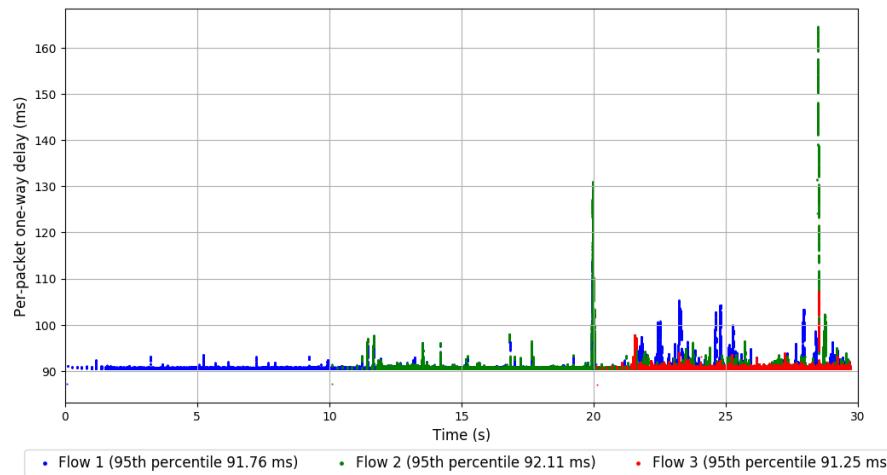
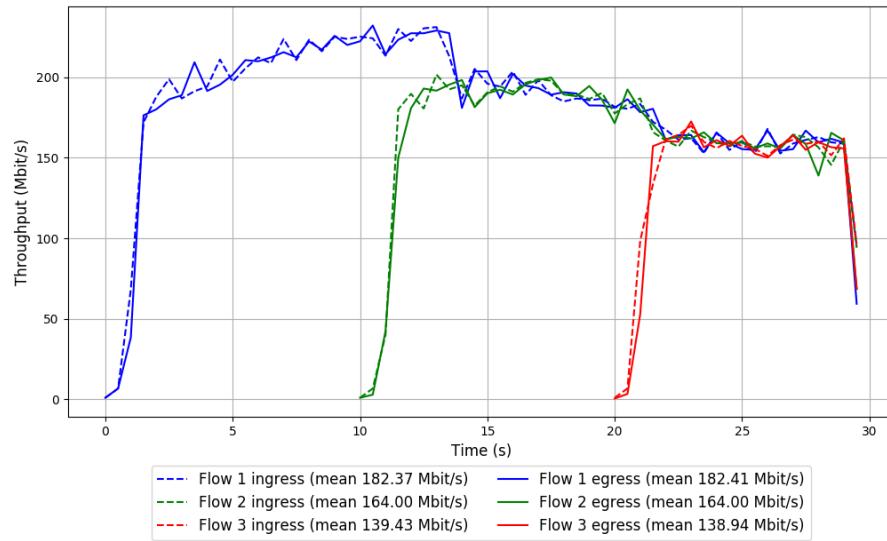


```
Run 10: Statistics of Indigo-1-32

Start at: 2018-02-17 01:54:40
End at: 2018-02-17 01:55:10

# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.87 Mbit/s
95th percentile per-packet one-way delay: 91.751 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 182.41 Mbit/s
95th percentile per-packet one-way delay: 91.763 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 164.00 Mbit/s
95th percentile per-packet one-way delay: 92.105 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 138.94 Mbit/s
95th percentile per-packet one-way delay: 91.245 ms
Loss rate: 2.15%
```

Run 10: Report of Indigo-1-32 — Data Link



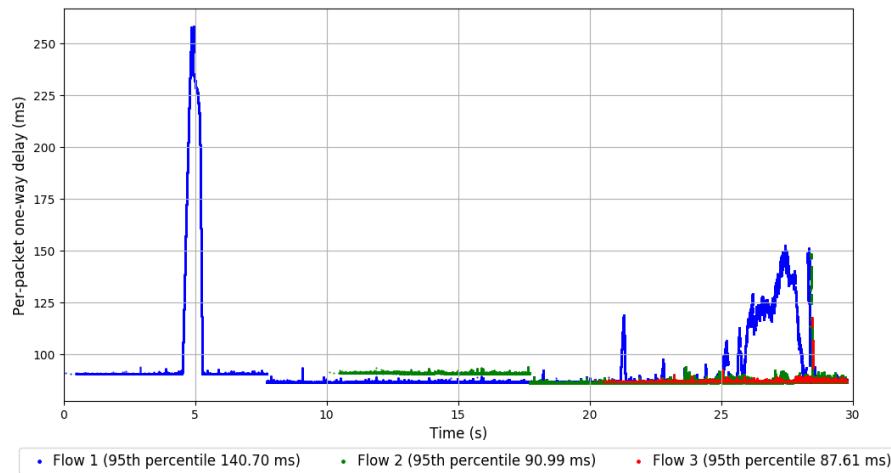
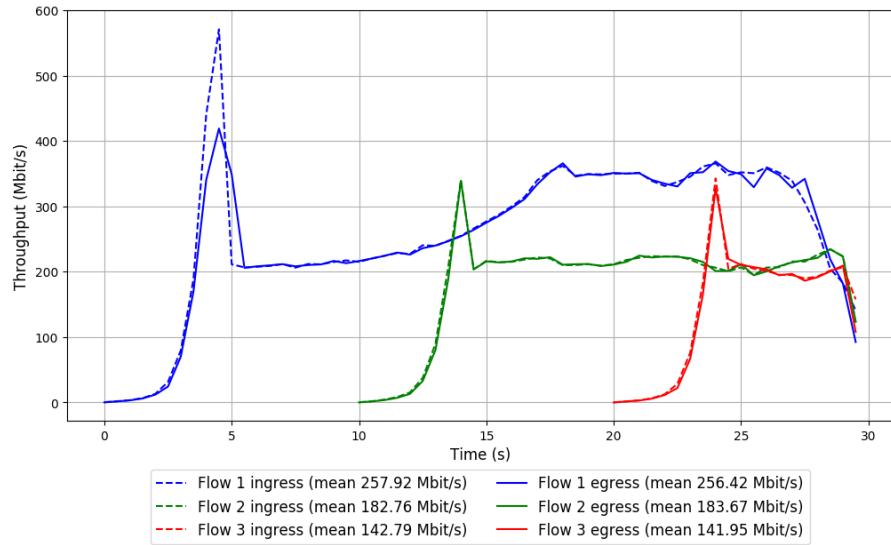
Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 23:07:31

End at: 2018-02-16 23:08:01

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.13 Mbit/s
95th percentile per-packet one-way delay: 126.084 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 256.42 Mbit/s
95th percentile per-packet one-way delay: 140.703 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 183.67 Mbit/s
95th percentile per-packet one-way delay: 90.993 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 141.95 Mbit/s
95th percentile per-packet one-way delay: 87.613 ms
Loss rate: 3.00%
```

Run 1: Report of Vivace-latency — Data Link



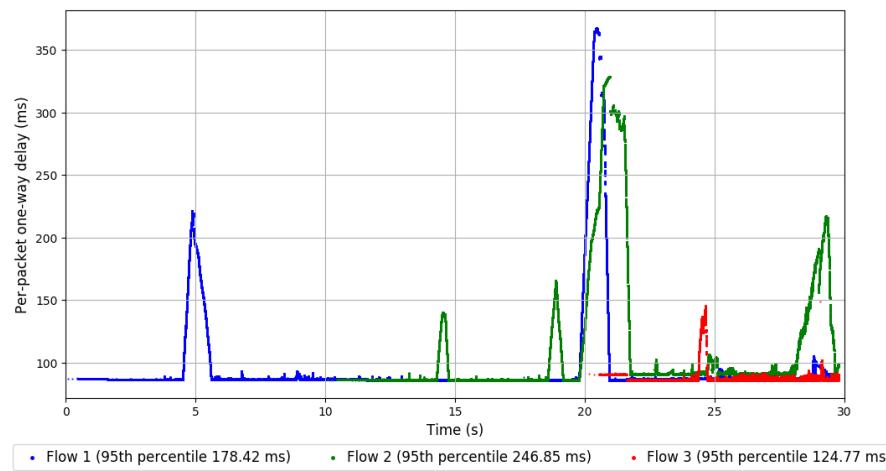
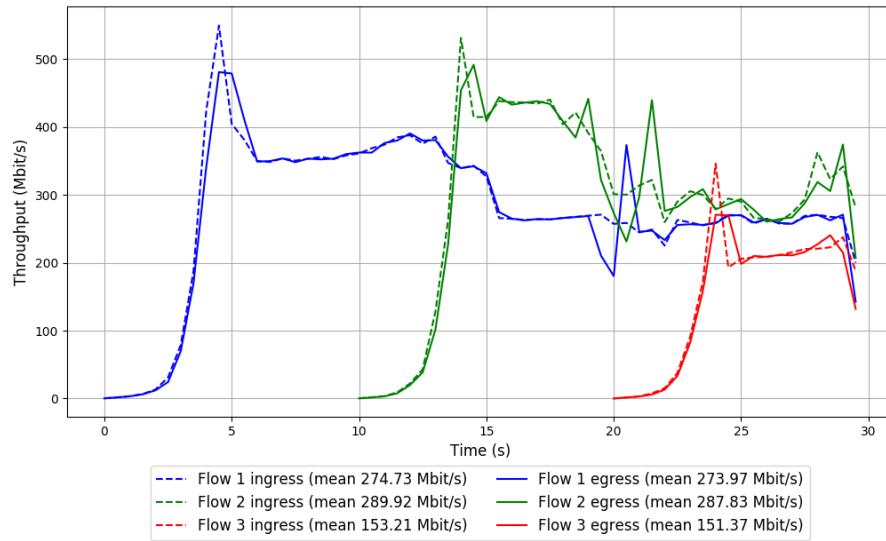
Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 23:26:37

End at: 2018-02-16 23:27:07

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 513.74 Mbit/s
95th percentile per-packet one-way delay: 197.769 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 273.97 Mbit/s
95th percentile per-packet one-way delay: 178.424 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 287.83 Mbit/s
95th percentile per-packet one-way delay: 246.851 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 151.37 Mbit/s
95th percentile per-packet one-way delay: 124.768 ms
Loss rate: 3.28%
```

Run 2: Report of Vivace-latency — Data Link



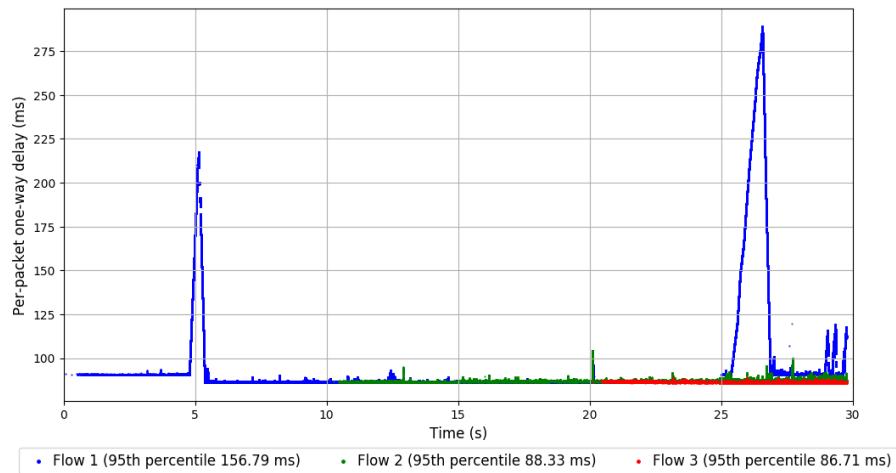
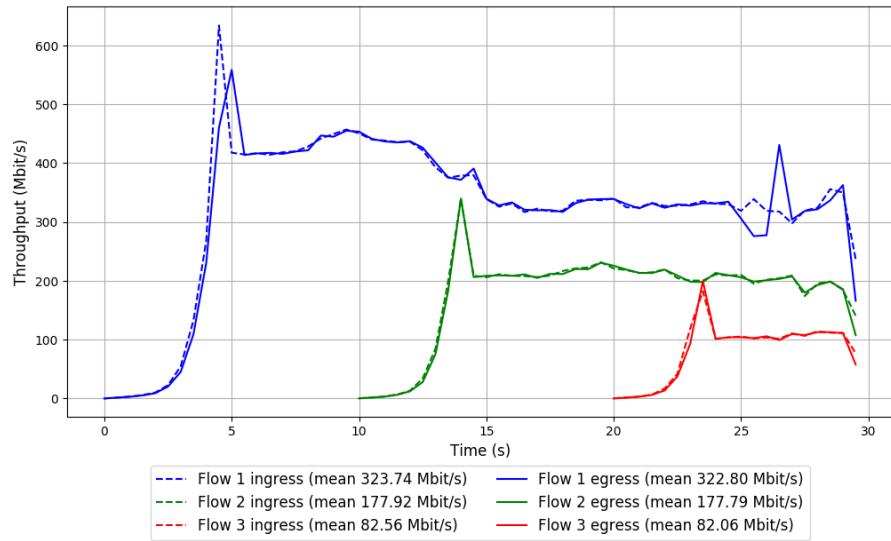
Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 23:45:44

End at: 2018-02-16 23:46:14

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 467.34 Mbit/s
95th percentile per-packet one-way delay: 115.640 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 322.80 Mbit/s
95th percentile per-packet one-way delay: 156.792 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 177.79 Mbit/s
95th percentile per-packet one-way delay: 88.330 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 82.06 Mbit/s
95th percentile per-packet one-way delay: 86.706 ms
Loss rate: 2.36%
```

Run 3: Report of Vivace-latency — Data Link



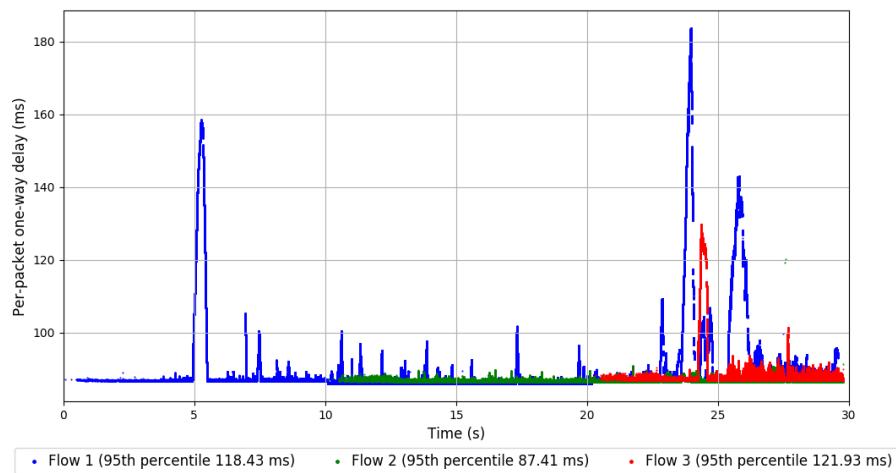
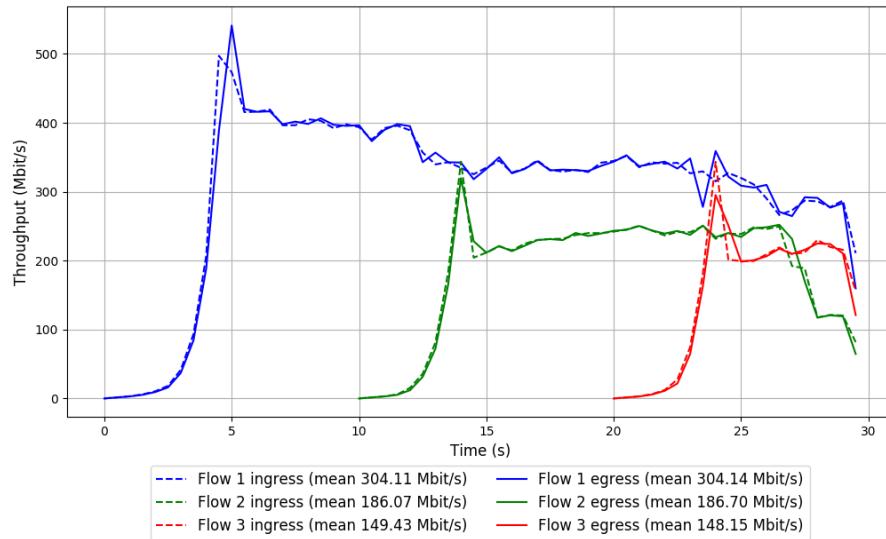
Run 4: Statistics of Vivace-latency

Start at: 2018-02-17 00:04:49

End at: 2018-02-17 00:05:19

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.81 Mbit/s
95th percentile per-packet one-way delay: 105.801 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 304.14 Mbit/s
95th percentile per-packet one-way delay: 118.434 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 186.70 Mbit/s
95th percentile per-packet one-way delay: 87.405 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 148.15 Mbit/s
95th percentile per-packet one-way delay: 121.930 ms
Loss rate: 2.60%
```

Run 4: Report of Vivace-latency — Data Link



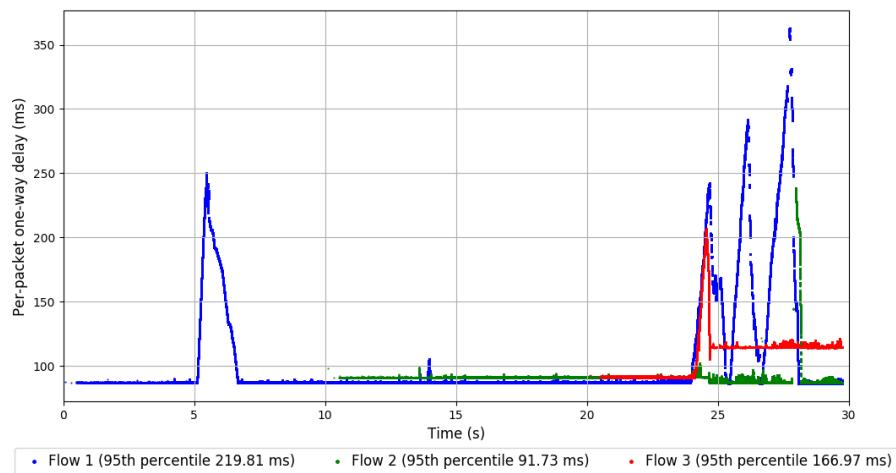
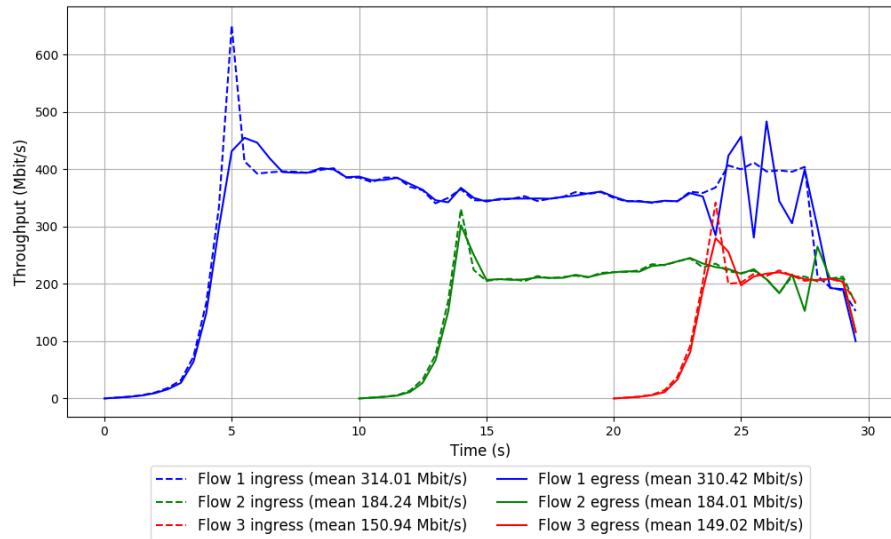
Run 5: Statistics of Vivace-latency

Start at: 2018-02-17 00:24:14

End at: 2018-02-17 00:24:44

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.53 Mbit/s
95th percentile per-packet one-way delay: 199.749 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 310.42 Mbit/s
95th percentile per-packet one-way delay: 219.811 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 184.01 Mbit/s
95th percentile per-packet one-way delay: 91.733 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 149.02 Mbit/s
95th percentile per-packet one-way delay: 166.965 ms
Loss rate: 3.35%
```

Run 5: Report of Vivace-latency — Data Link



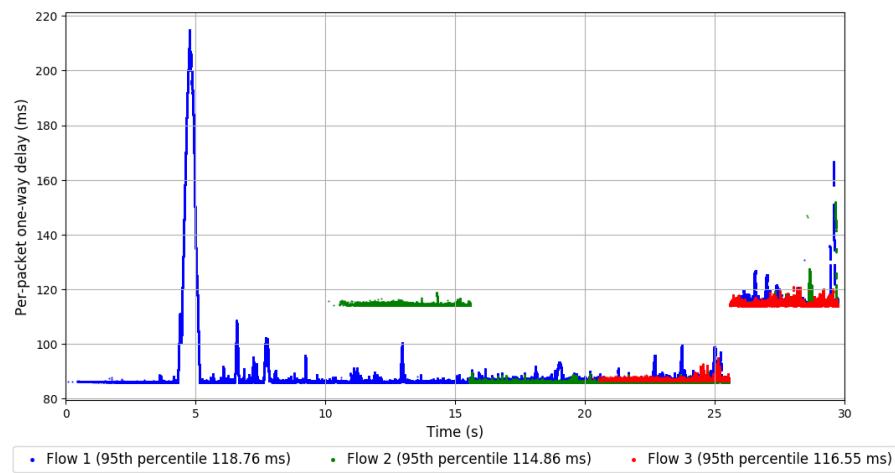
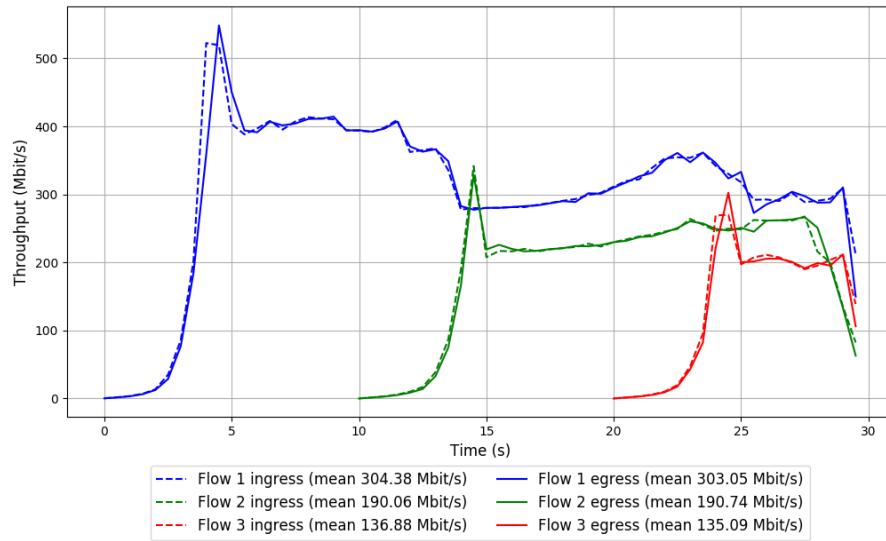
Run 6: Statistics of Vivace-latency

Start at: 2018-02-17 00:43:33

End at: 2018-02-17 00:44:03

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 473.14 Mbit/s
95th percentile per-packet one-way delay: 116.529 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 303.05 Mbit/s
95th percentile per-packet one-way delay: 118.758 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 190.74 Mbit/s
95th percentile per-packet one-way delay: 114.856 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 135.09 Mbit/s
95th percentile per-packet one-way delay: 116.549 ms
Loss rate: 3.05%
```

Run 6: Report of Vivace-latency — Data Link



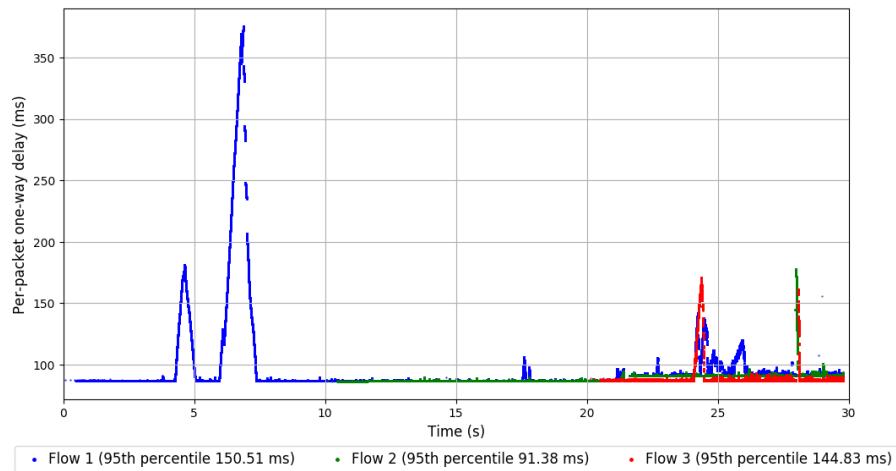
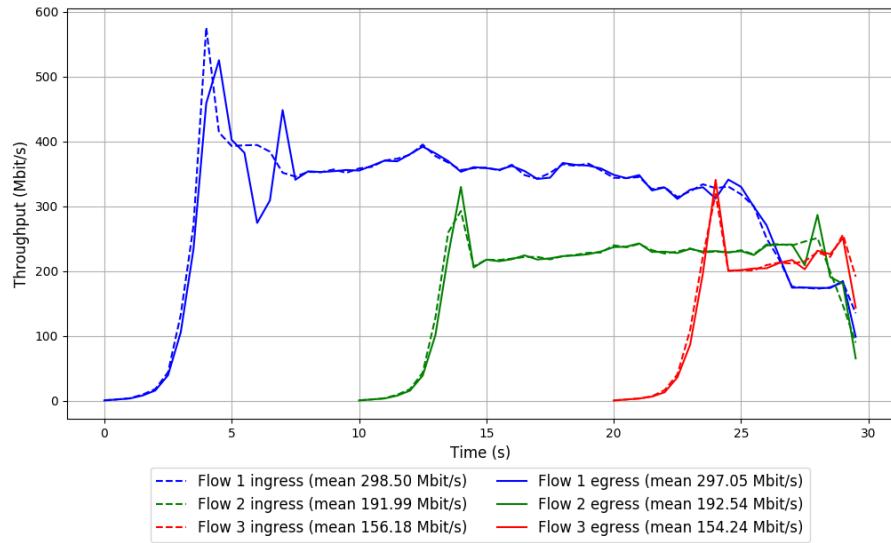
Run 7: Statistics of Vivace-latency

Start at: 2018-02-17 01:02:27

End at: 2018-02-17 01:02:57

```
# Below is generated by plot.py at 2018-02-17 07:07:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.73 Mbit/s
95th percentile per-packet one-way delay: 133.381 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 297.05 Mbit/s
95th percentile per-packet one-way delay: 150.513 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 192.54 Mbit/s
95th percentile per-packet one-way delay: 91.379 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 154.24 Mbit/s
95th percentile per-packet one-way delay: 144.831 ms
Loss rate: 2.97%
```

Run 7: Report of Vivace-latency — Data Link



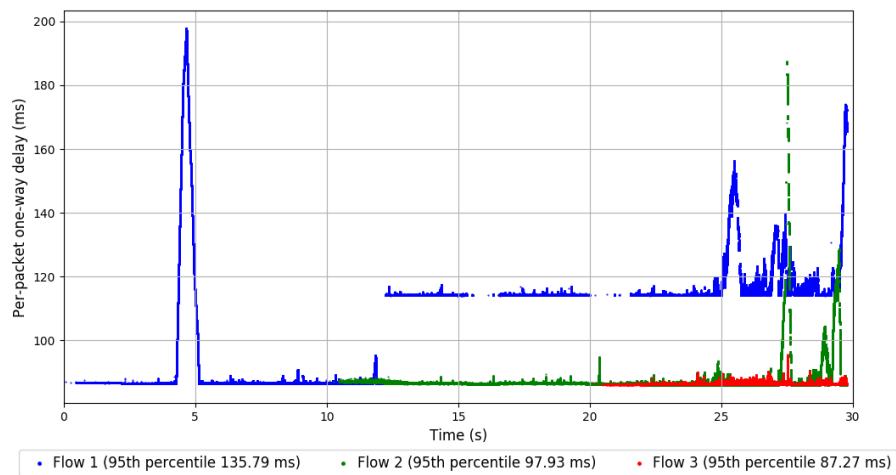
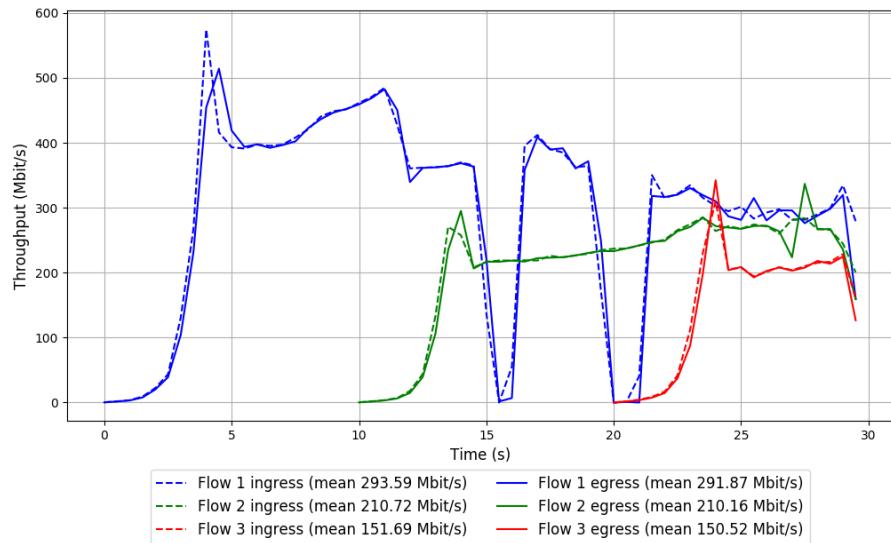
Run 8: Statistics of Vivace-latency

Start at: 2018-02-17 01:21:17

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

```
# Below is generated by plot.py at 2018-02-17 07:08:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.09 Mbit/s
95th percentile per-packet one-way delay: 124.294 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 291.87 Mbit/s
95th percentile per-packet one-way delay: 135.787 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 210.16 Mbit/s
95th percentile per-packet one-way delay: 97.927 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 150.52 Mbit/s
95th percentile per-packet one-way delay: 87.274 ms
Loss rate: 2.53%
```

Run 8: Report of Vivace-latency — Data Link



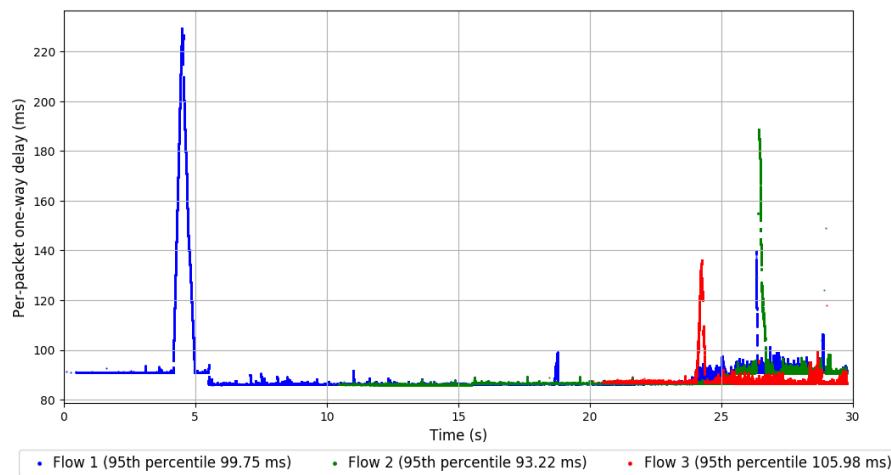
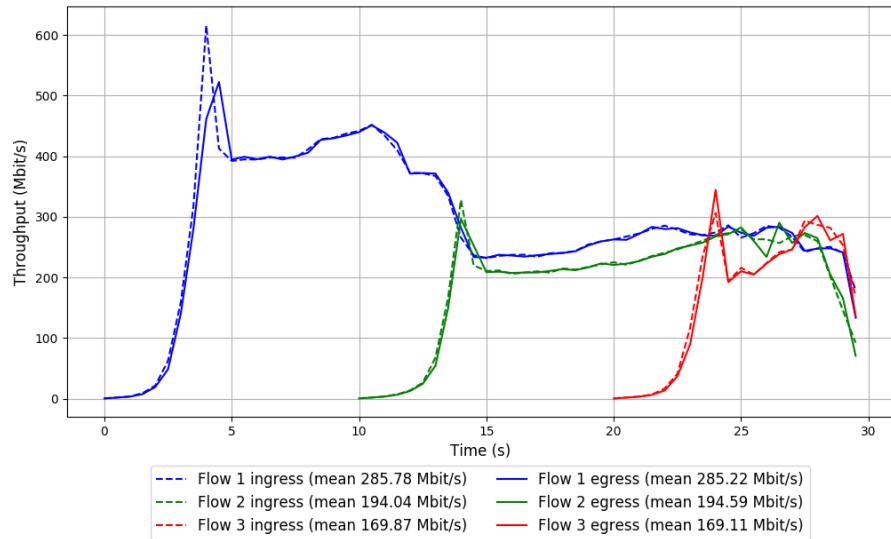
Run 9: Statistics of Vivace-latency

Start at: 2018-02-17 01:40:03

End at: 2018-02-17 01:40:33

```
# Below is generated by plot.py at 2018-02-17 07:08:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.22 Mbit/s
95th percentile per-packet one-way delay: 96.325 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 285.22 Mbit/s
95th percentile per-packet one-way delay: 99.748 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 194.59 Mbit/s
95th percentile per-packet one-way delay: 93.225 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 169.11 Mbit/s
95th percentile per-packet one-way delay: 105.978 ms
Loss rate: 2.22%
```

Run 9: Report of Vivace-latency — Data Link



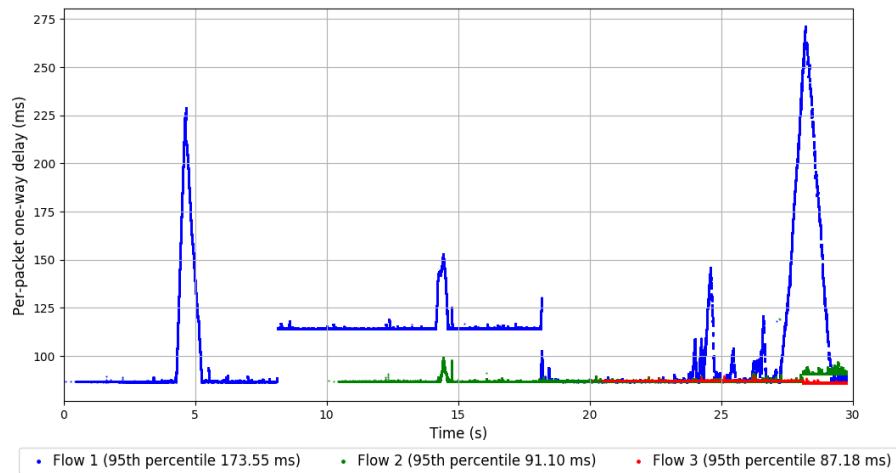
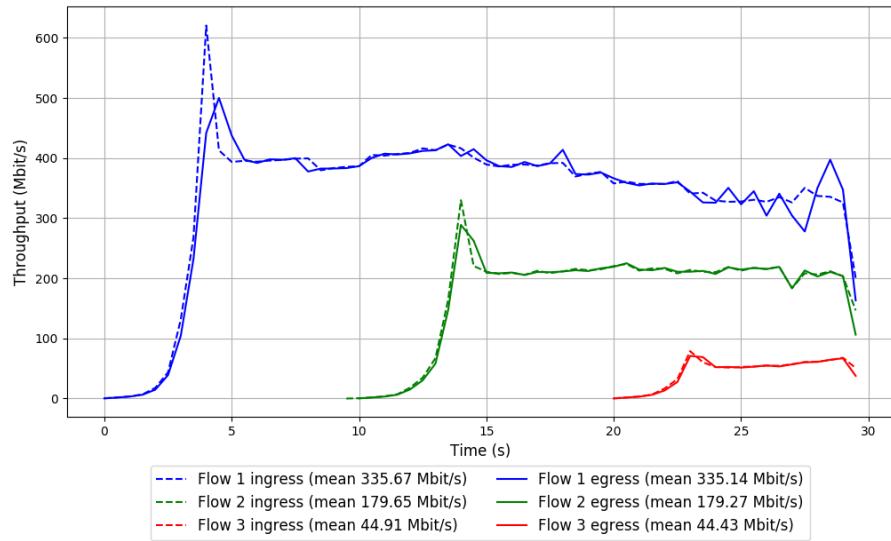
Run 10: Statistics of Vivace-latency

Start at: 2018-02-17 01:58:31

End at: 2018-02-17 01:59:01

```
# Below is generated by plot.py at 2018-02-17 07:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 468.44 Mbit/s
95th percentile per-packet one-way delay: 148.631 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 335.14 Mbit/s
95th percentile per-packet one-way delay: 173.554 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 179.27 Mbit/s
95th percentile per-packet one-way delay: 91.099 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 44.43 Mbit/s
95th percentile per-packet one-way delay: 87.177 ms
Loss rate: 2.83%
```

Run 10: Report of Vivace-latency — Data Link

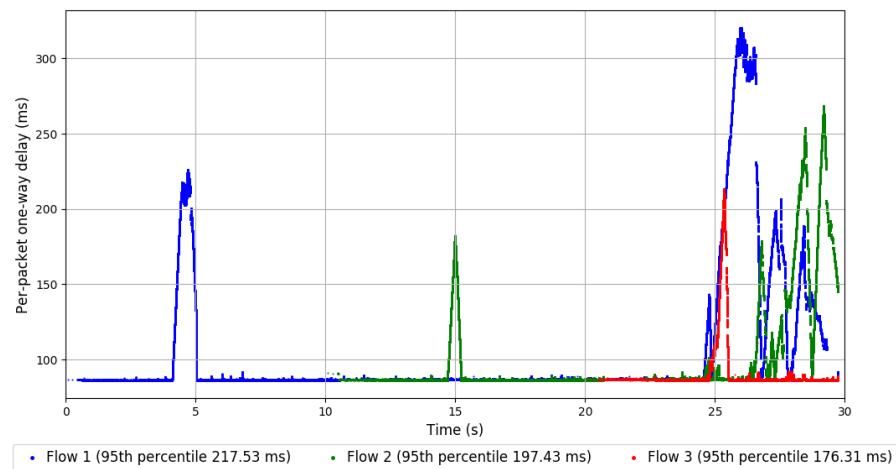
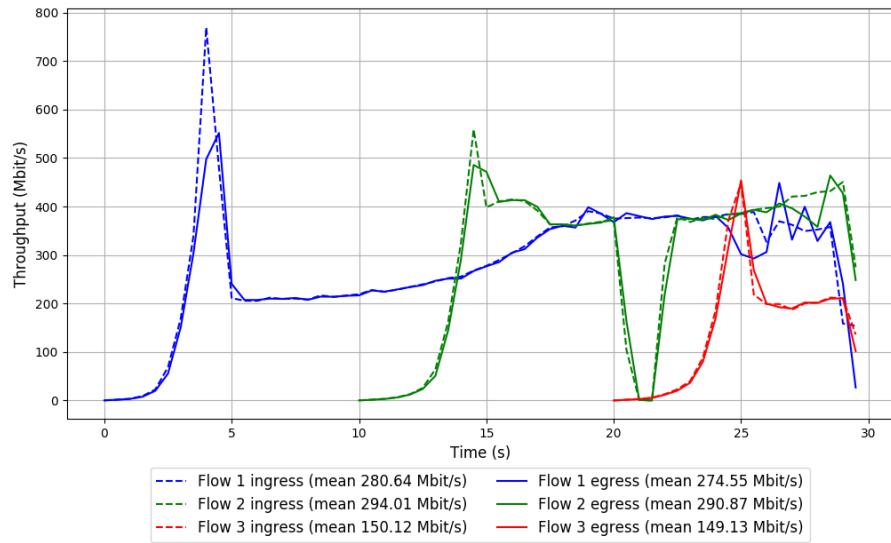


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 22:57:18
End at: 2018-02-16 22:57:48

# Below is generated by plot.py at 2018-02-17 07:10:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.70 Mbit/s
95th percentile per-packet one-way delay: 209.124 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 274.55 Mbit/s
95th percentile per-packet one-way delay: 217.529 ms
Loss rate: 2.74%
-- Flow 2:
Average throughput: 290.87 Mbit/s
95th percentile per-packet one-way delay: 197.434 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 149.13 Mbit/s
95th percentile per-packet one-way delay: 176.308 ms
Loss rate: 2.42%
```

Run 1: Report of Vivace-loss — Data Link



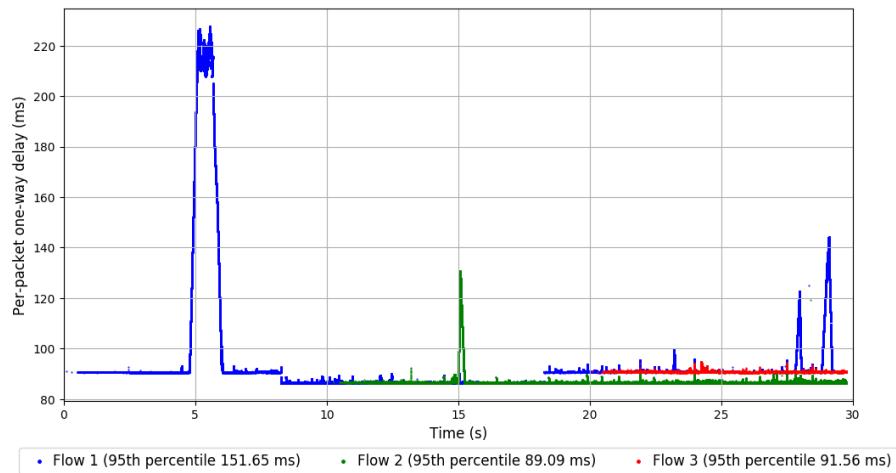
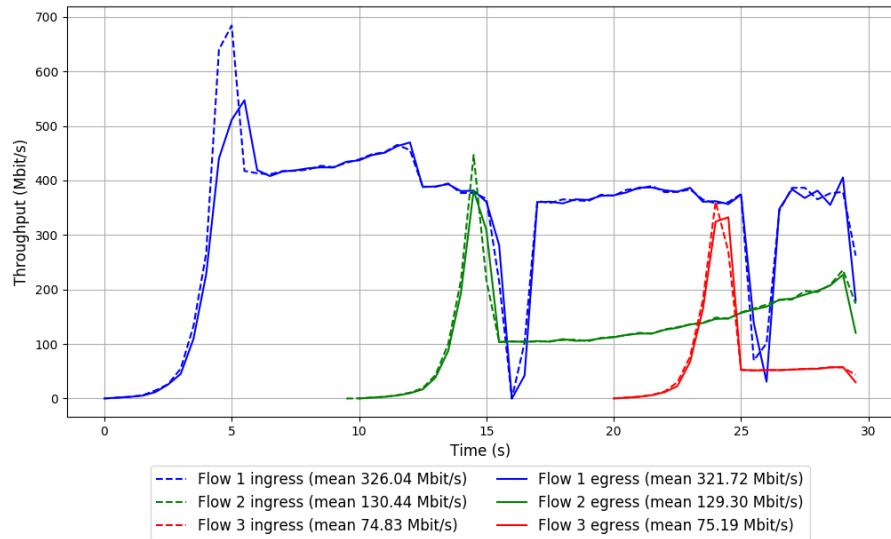
Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 23:16:11

End at: 2018-02-16 23:16:41

```
# Below is generated by plot.py at 2018-02-17 07:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 431.93 Mbit/s
95th percentile per-packet one-way delay: 121.130 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 321.72 Mbit/s
95th percentile per-packet one-way delay: 151.651 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 129.30 Mbit/s
95th percentile per-packet one-way delay: 89.089 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 91.560 ms
Loss rate: 1.61%
```

Run 2: Report of Vivace-loss — Data Link



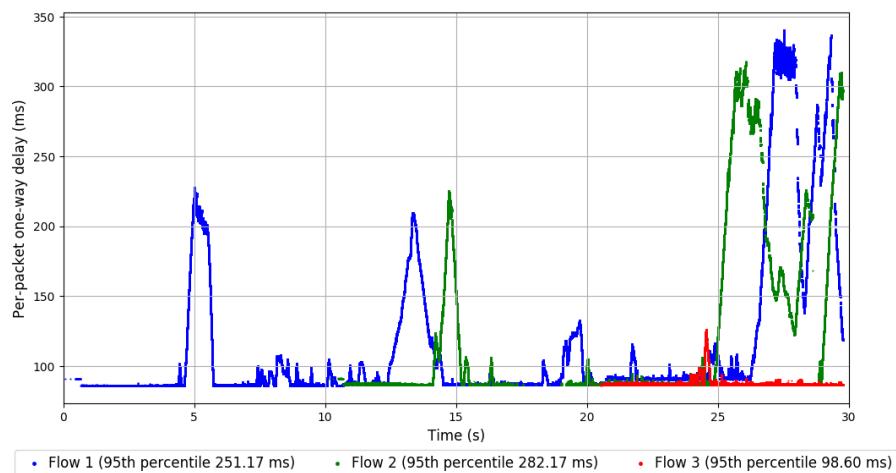
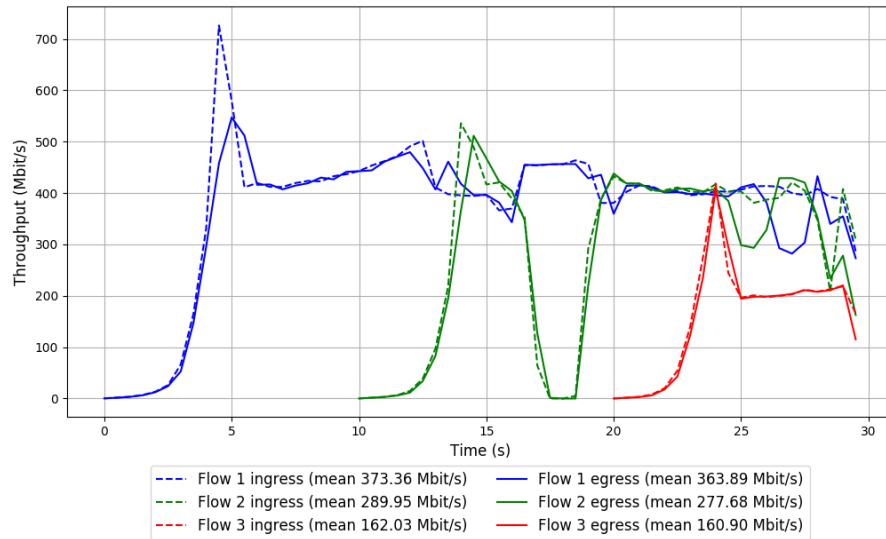
Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 23:35:18

End at: 2018-02-16 23:35:48

```
# Below is generated by plot.py at 2018-02-17 07:17:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 599.70 Mbit/s
95th percentile per-packet one-way delay: 265.484 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 363.89 Mbit/s
95th percentile per-packet one-way delay: 251.173 ms
Loss rate: 3.21%
-- Flow 2:
Average throughput: 277.68 Mbit/s
95th percentile per-packet one-way delay: 282.168 ms
Loss rate: 5.23%
-- Flow 3:
Average throughput: 160.90 Mbit/s
95th percentile per-packet one-way delay: 98.603 ms
Loss rate: 2.74%
```

Run 3: Report of Vivace-loss — Data Link



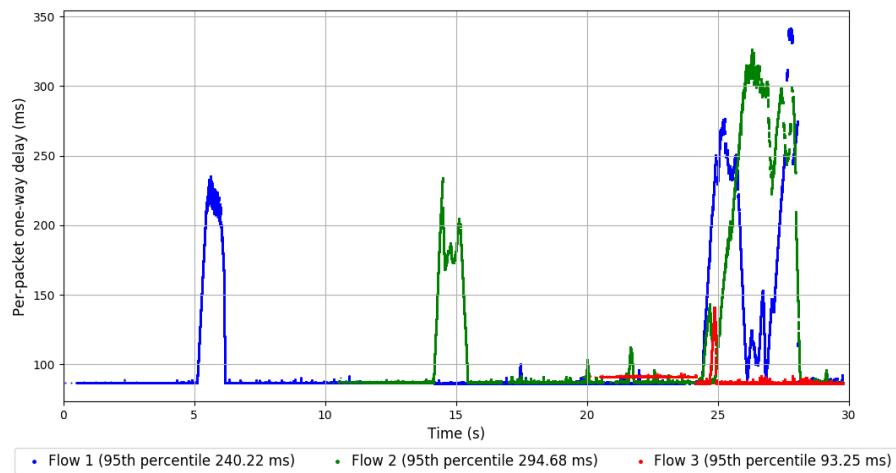
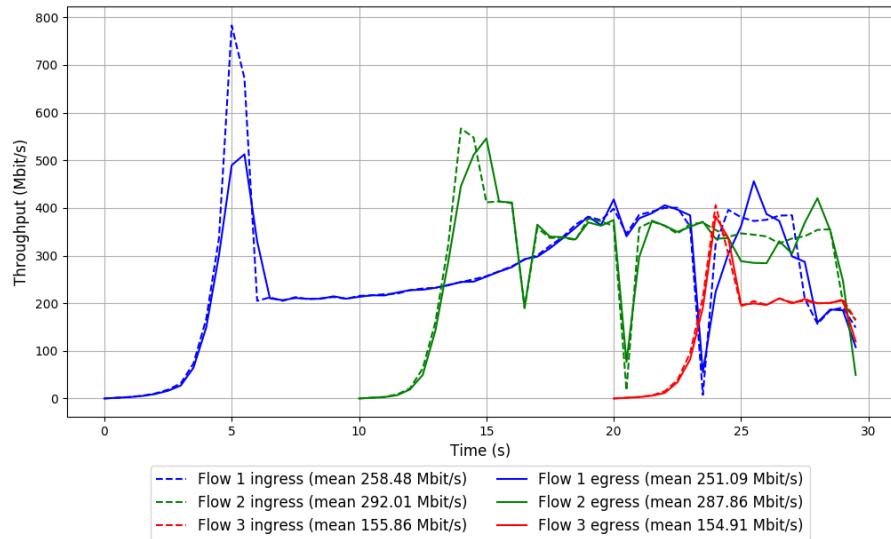
Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 23:54:35

End at: 2018-02-16 23:55:05

```
# Below is generated by plot.py at 2018-02-17 07:17:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 491.83 Mbit/s
95th percentile per-packet one-way delay: 255.592 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 251.09 Mbit/s
95th percentile per-packet one-way delay: 240.225 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 287.86 Mbit/s
95th percentile per-packet one-way delay: 294.682 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 154.91 Mbit/s
95th percentile per-packet one-way delay: 93.245 ms
Loss rate: 2.68%
```

Run 4: Report of Vivace-loss — Data Link



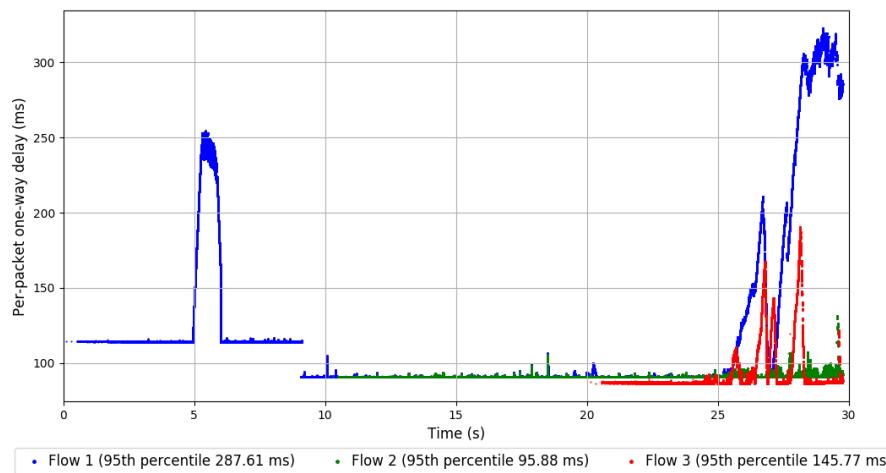
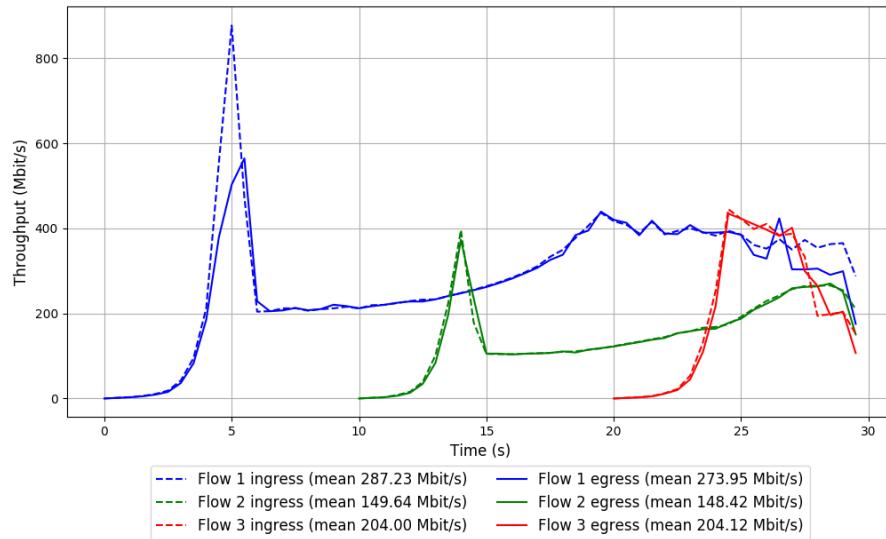
Run 5: Statistics of Vivace-loss

Start at: 2018-02-17 00:13:40

End at: 2018-02-17 00:14:10

```
# Below is generated by plot.py at 2018-02-17 07:17:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.54 Mbit/s
95th percentile per-packet one-way delay: 242.919 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 273.95 Mbit/s
95th percentile per-packet one-way delay: 287.606 ms
Loss rate: 5.35%
-- Flow 2:
Average throughput: 148.42 Mbit/s
95th percentile per-packet one-way delay: 95.884 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 204.12 Mbit/s
95th percentile per-packet one-way delay: 145.773 ms
Loss rate: 2.00%
```

Run 5: Report of Vivace-loss — Data Link



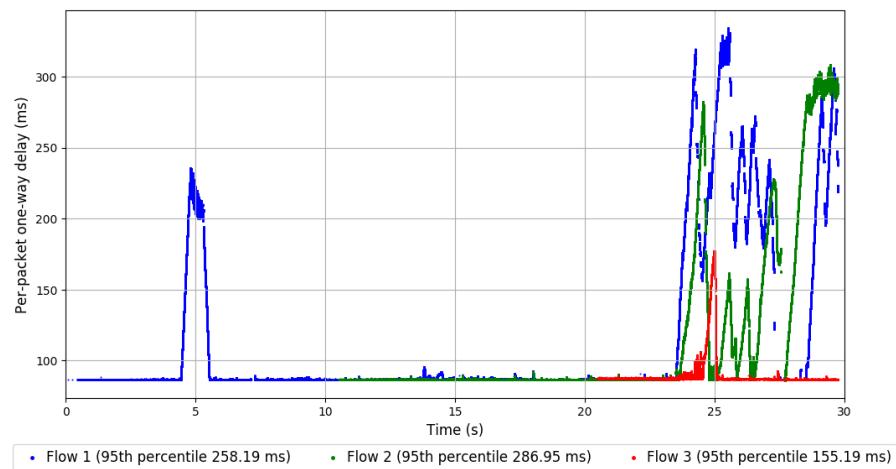
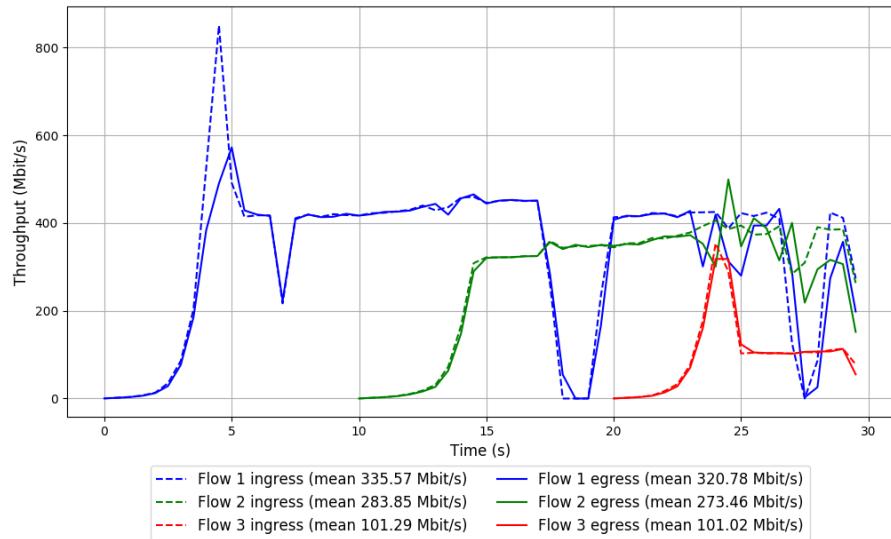
Run 6: Statistics of Vivace-loss

Start at: 2018-02-17 00:33:02

End at: 2018-02-17 00:33:32

```
# Below is generated by plot.py at 2018-02-17 07:18:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 534.79 Mbit/s
95th percentile per-packet one-way delay: 269.021 ms
Loss rate: 4.64%
-- Flow 1:
Average throughput: 320.78 Mbit/s
95th percentile per-packet one-way delay: 258.190 ms
Loss rate: 4.96%
-- Flow 2:
Average throughput: 273.46 Mbit/s
95th percentile per-packet one-way delay: 286.953 ms
Loss rate: 4.50%
-- Flow 3:
Average throughput: 101.02 Mbit/s
95th percentile per-packet one-way delay: 155.191 ms
Loss rate: 2.09%
```

Run 6: Report of Vivace-loss — Data Link



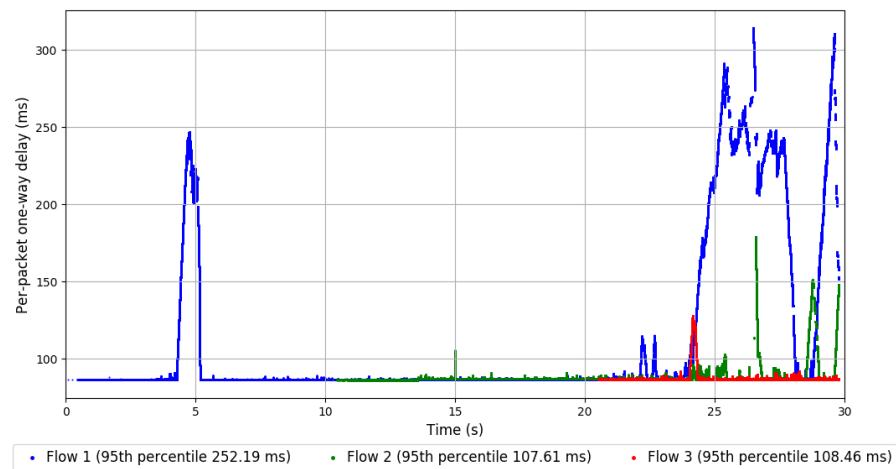
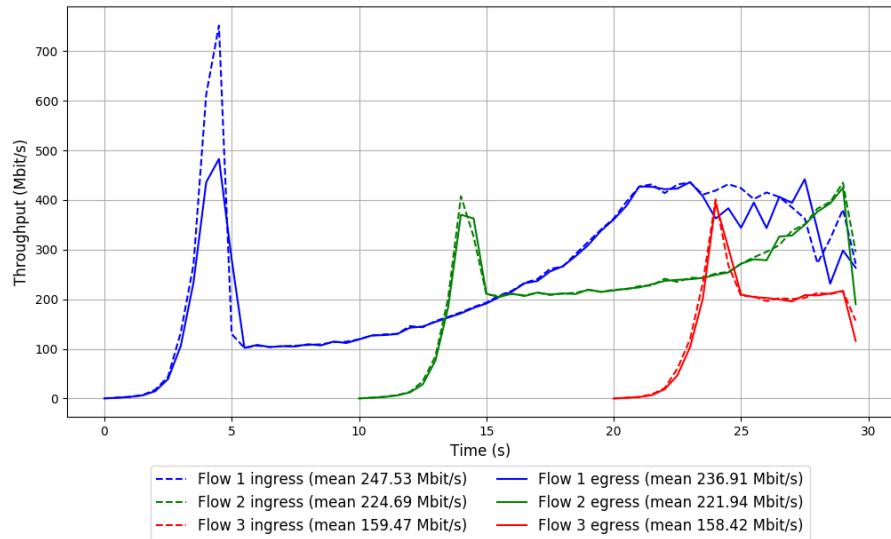
Run 7: Statistics of Vivace-loss

Start at: 2018-02-17 00:52:15

End at: 2018-02-17 00:52:45

```
# Below is generated by plot.py at 2018-02-17 07:18:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 435.44 Mbit/s
95th percentile per-packet one-way delay: 240.361 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 236.91 Mbit/s
95th percentile per-packet one-way delay: 252.192 ms
Loss rate: 4.85%
-- Flow 2:
Average throughput: 221.94 Mbit/s
95th percentile per-packet one-way delay: 107.608 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 158.42 Mbit/s
95th percentile per-packet one-way delay: 108.458 ms
Loss rate: 2.42%
```

Run 7: Report of Vivace-loss — Data Link



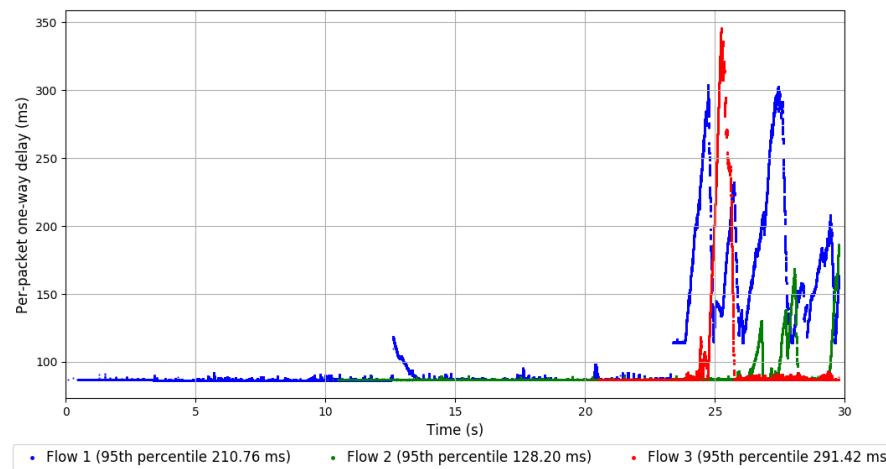
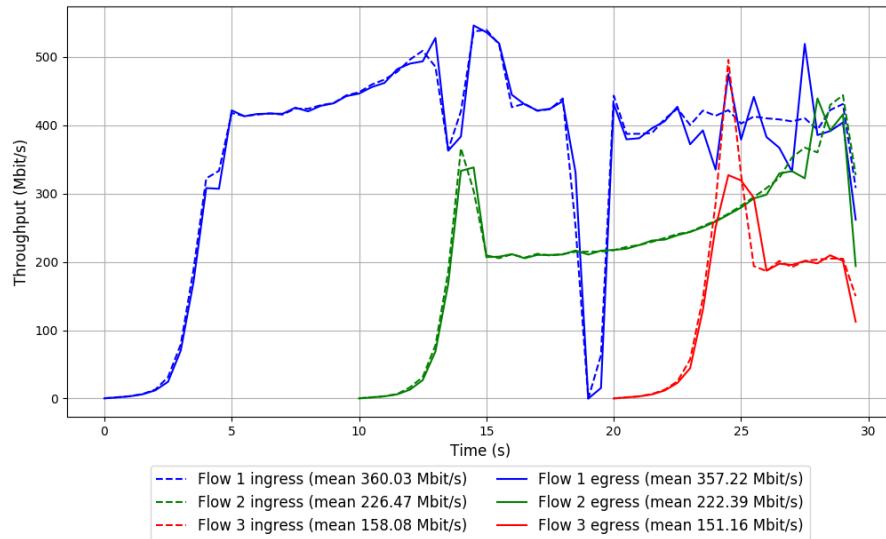
Run 8: Statistics of Vivace-loss

Start at: 2018-02-17 01:11:06

End at: 2018-02-17 01:11:36

```
# Below is generated by plot.py at 2018-02-17 07:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 553.64 Mbit/s
95th percentile per-packet one-way delay: 204.398 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 357.22 Mbit/s
95th percentile per-packet one-way delay: 210.765 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 222.39 Mbit/s
95th percentile per-packet one-way delay: 128.198 ms
Loss rate: 2.66%
-- Flow 3:
Average throughput: 151.16 Mbit/s
95th percentile per-packet one-way delay: 291.420 ms
Loss rate: 6.07%
```

Run 8: Report of Vivace-loss — Data Link



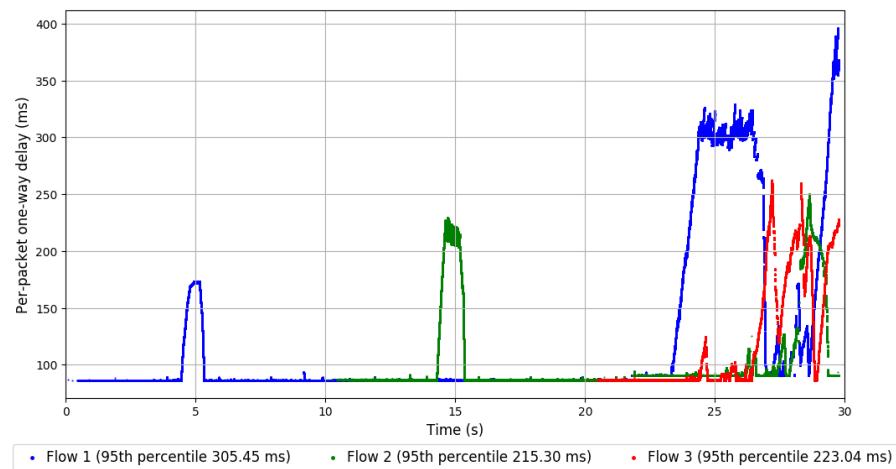
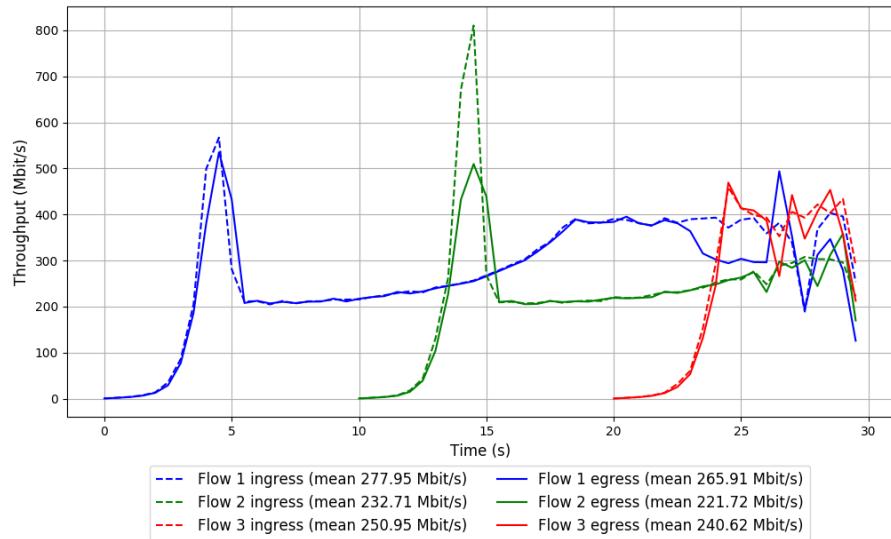
Run 9: Statistics of Vivace-loss

Start at: 2018-02-17 01:29:47

End at: 2018-02-17 01:30:17

```
# Below is generated by plot.py at 2018-02-17 07:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 491.03 Mbit/s
95th percentile per-packet one-way delay: 293.845 ms
Loss rate: 5.24%
-- Flow 1:
Average throughput: 265.91 Mbit/s
95th percentile per-packet one-way delay: 305.455 ms
Loss rate: 4.89%
-- Flow 2:
Average throughput: 221.72 Mbit/s
95th percentile per-packet one-way delay: 215.296 ms
Loss rate: 5.56%
-- Flow 3:
Average throughput: 240.62 Mbit/s
95th percentile per-packet one-way delay: 223.045 ms
Loss rate: 5.82%
```

Run 9: Report of Vivace-loss — Data Link

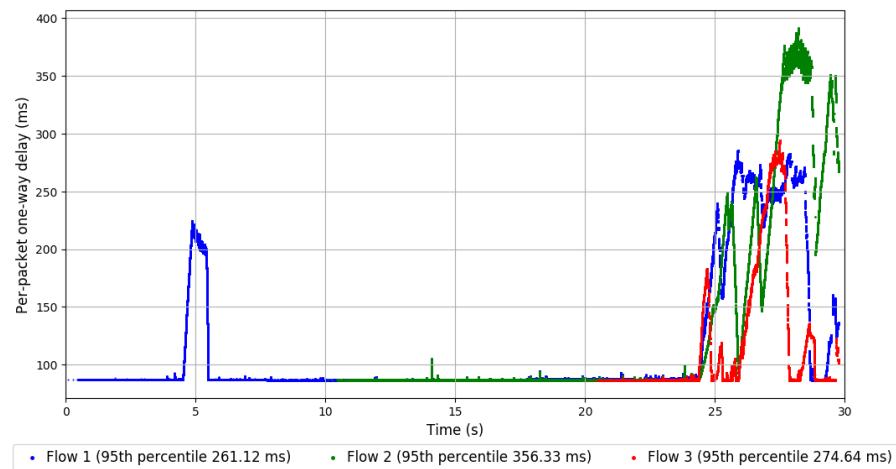
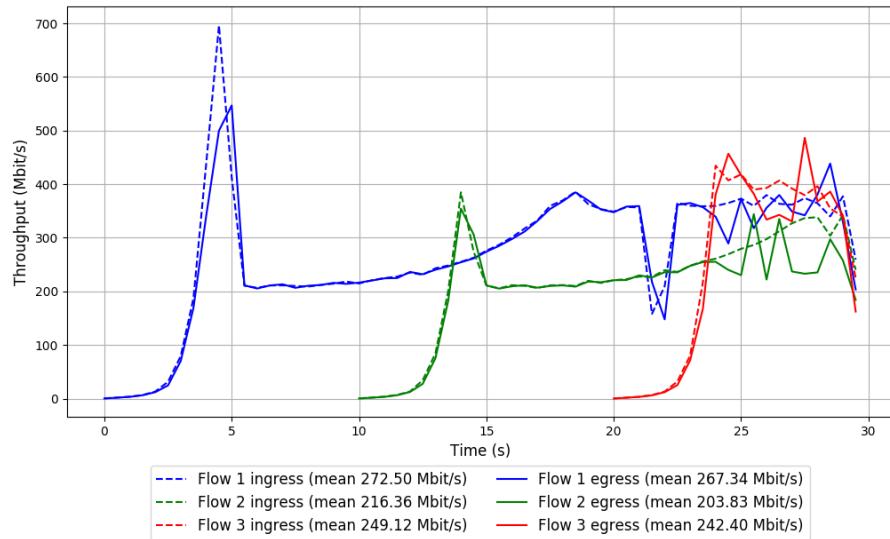


```
Run 10: Statistics of Vivace-loss

Start at: 2018-02-17 01:48:41
End at: 2018-02-17 01:49:11

# Below is generated by plot.py at 2018-02-17 07:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 481.20 Mbit/s
95th percentile per-packet one-way delay: 274.995 ms
Loss rate: 3.98%
-- Flow 1:
Average throughput: 267.34 Mbit/s
95th percentile per-packet one-way delay: 261.117 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 203.83 Mbit/s
95th percentile per-packet one-way delay: 356.332 ms
Loss rate: 6.61%
-- Flow 3:
Average throughput: 242.40 Mbit/s
95th percentile per-packet one-way delay: 274.644 ms
Loss rate: 4.42%
```

Run 10: Report of Vivace-loss — Data Link

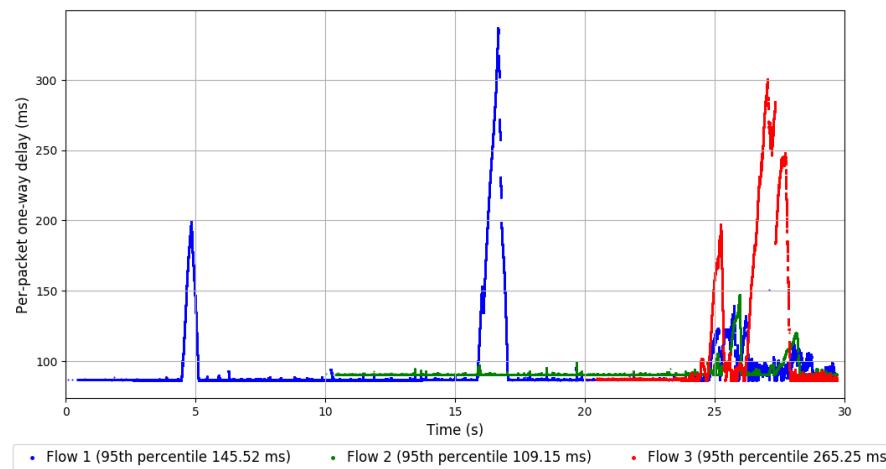
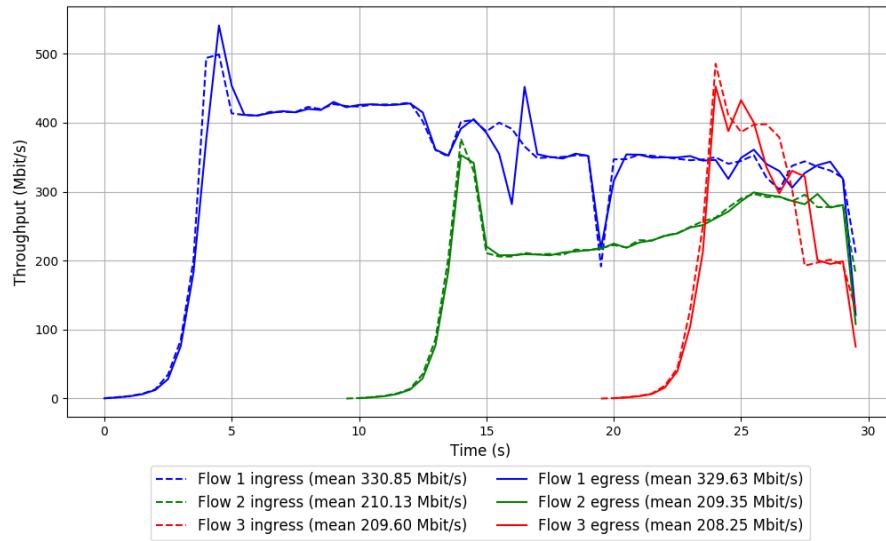


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 22:52:05
End at: 2018-02-16 22:52:35

# Below is generated by plot.py at 2018-02-17 07:25:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 536.39 Mbit/s
95th percentile per-packet one-way delay: 173.791 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 329.63 Mbit/s
95th percentile per-packet one-way delay: 145.521 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 209.35 Mbit/s
95th percentile per-packet one-way delay: 109.148 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 208.25 Mbit/s
95th percentile per-packet one-way delay: 265.246 ms
Loss rate: 2.85%
```

Run 1: Report of Vivace-LTE — Data Link



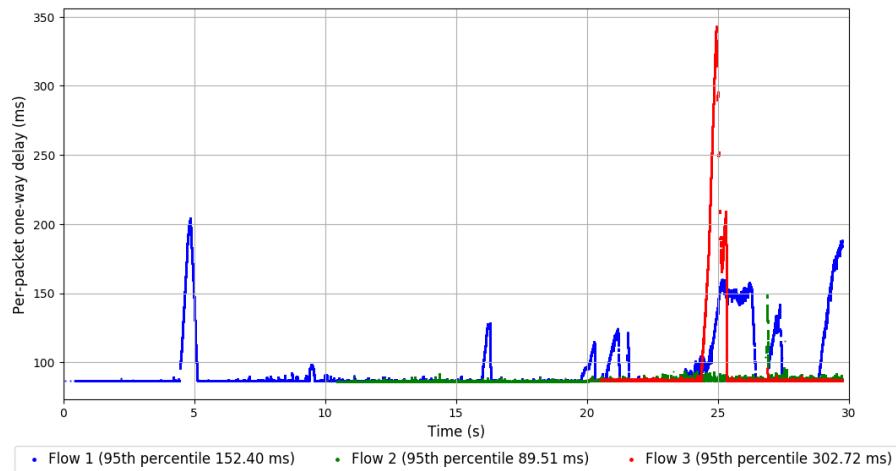
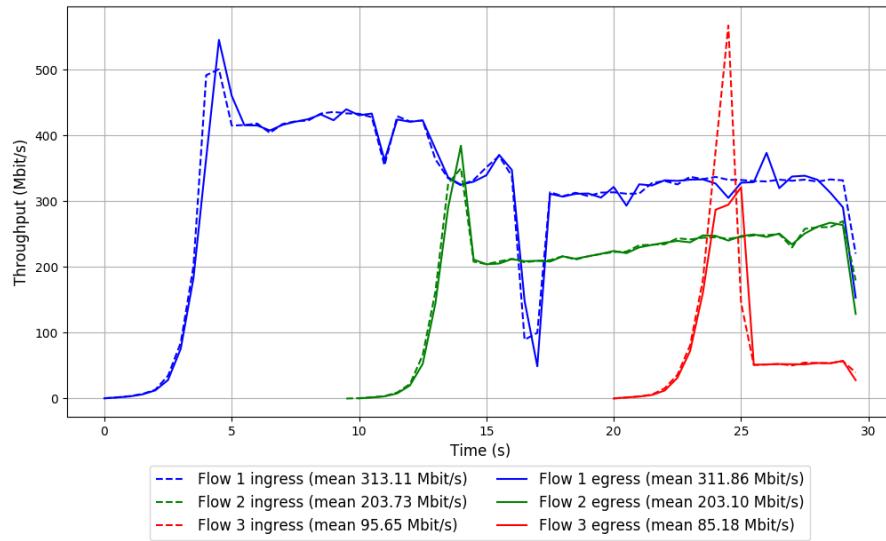
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 23:11:09

End at: 2018-02-16 23:11:39

```
# Below is generated by plot.py at 2018-02-17 07:25:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.31 Mbit/s
95th percentile per-packet one-way delay: 153.198 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 311.86 Mbit/s
95th percentile per-packet one-way delay: 152.400 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 203.10 Mbit/s
95th percentile per-packet one-way delay: 89.513 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 302.716 ms
Loss rate: 12.52%
```

Run 2: Report of Vivace-LTE — Data Link



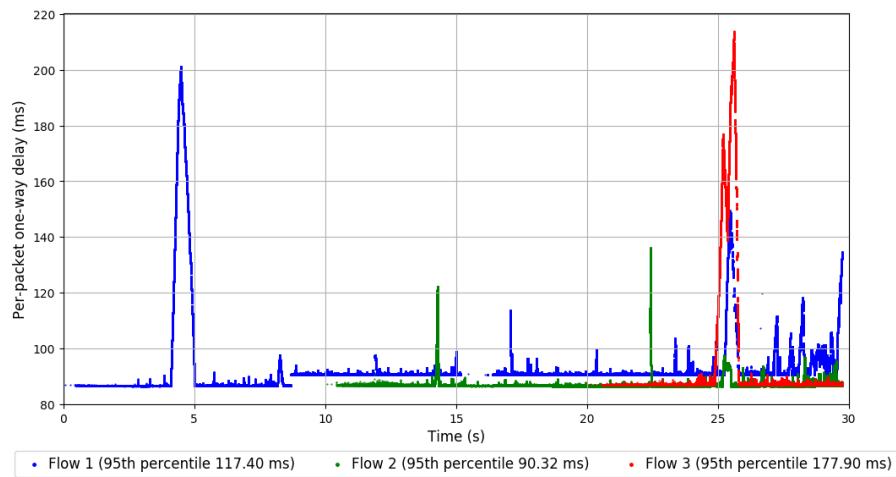
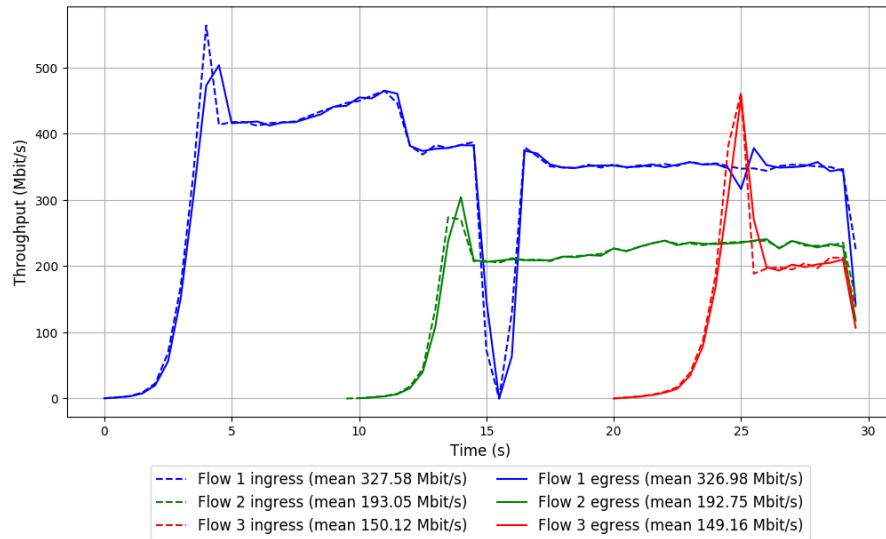
Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 23:30:20

End at: 2018-02-16 23:30:50

```
# Below is generated by plot.py at 2018-02-17 07:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 503.24 Mbit/s
95th percentile per-packet one-way delay: 121.627 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 326.98 Mbit/s
95th percentile per-packet one-way delay: 117.402 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 192.75 Mbit/s
95th percentile per-packet one-way delay: 90.323 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 149.16 Mbit/s
95th percentile per-packet one-way delay: 177.897 ms
Loss rate: 2.41%
```

Run 3: Report of Vivace-LTE — Data Link



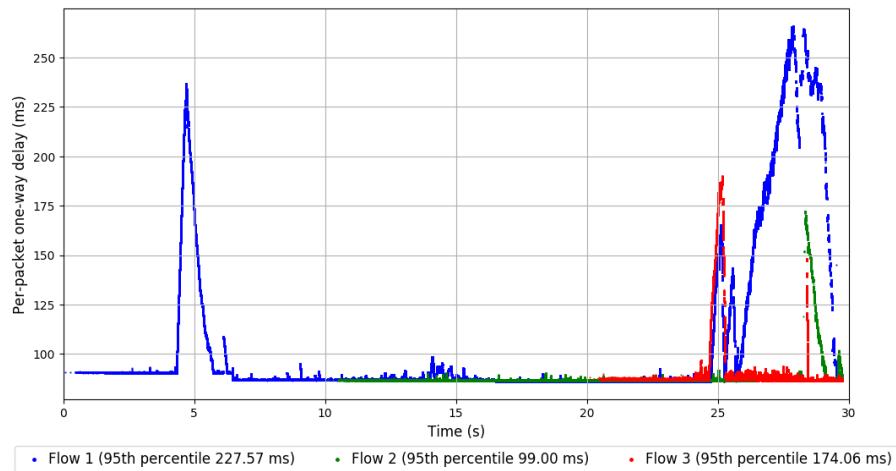
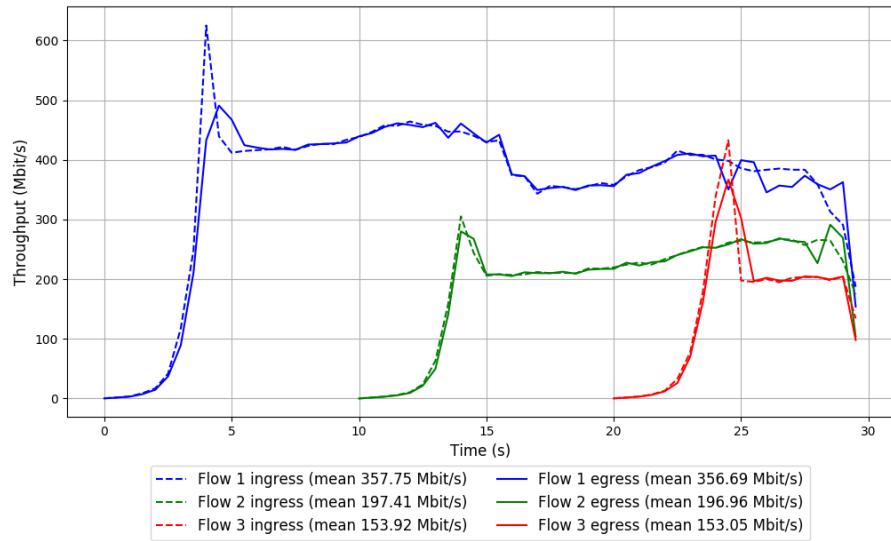
Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 23:49:22

End at: 2018-02-16 23:49:52

```
# Below is generated by plot.py at 2018-02-17 07:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 536.93 Mbit/s
95th percentile per-packet one-way delay: 204.442 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 356.69 Mbit/s
95th percentile per-packet one-way delay: 227.569 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 196.96 Mbit/s
95th percentile per-packet one-way delay: 99.005 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 153.05 Mbit/s
95th percentile per-packet one-way delay: 174.065 ms
Loss rate: 2.33%
```

Run 4: Report of Vivace-LTE — Data Link



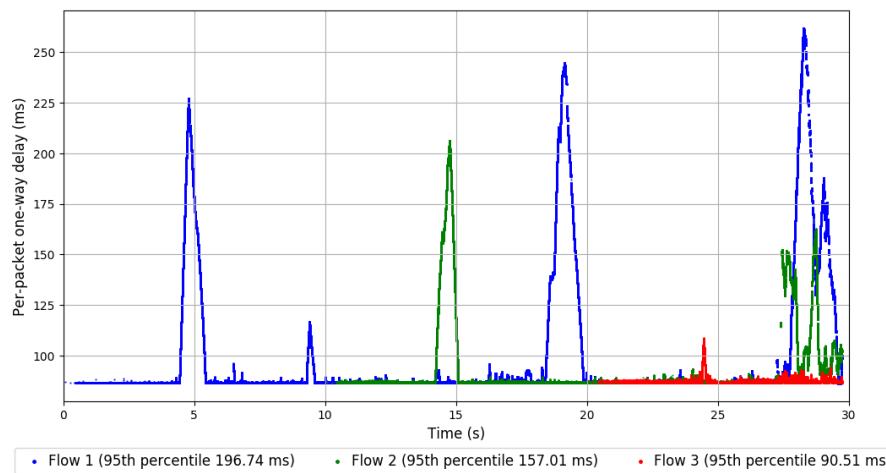
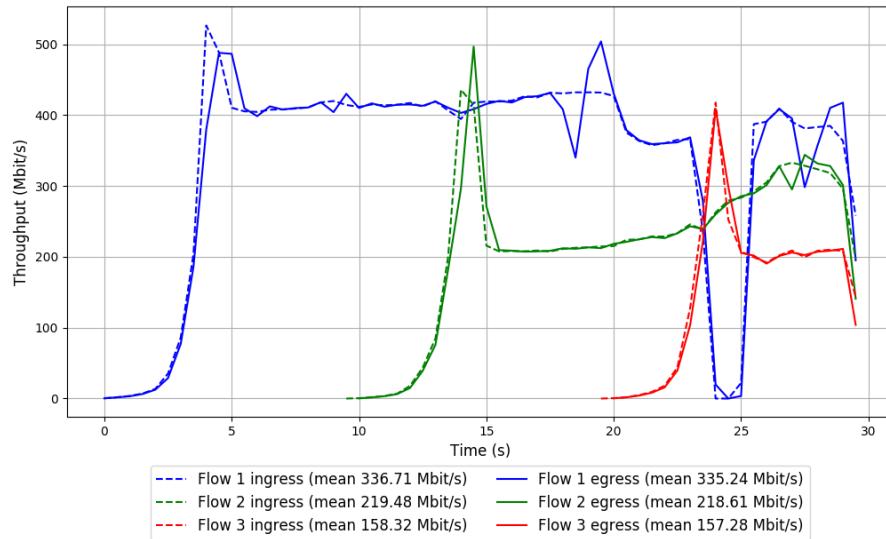
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-17 00:08:31

End at: 2018-02-17 00:09:01

```
# Below is generated by plot.py at 2018-02-17 07:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 531.40 Mbit/s
95th percentile per-packet one-way delay: 176.682 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 335.24 Mbit/s
95th percentile per-packet one-way delay: 196.741 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 218.61 Mbit/s
95th percentile per-packet one-way delay: 157.014 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 157.28 Mbit/s
95th percentile per-packet one-way delay: 90.512 ms
Loss rate: 2.42%
```

Run 5: Report of Vivace-LTE — Data Link



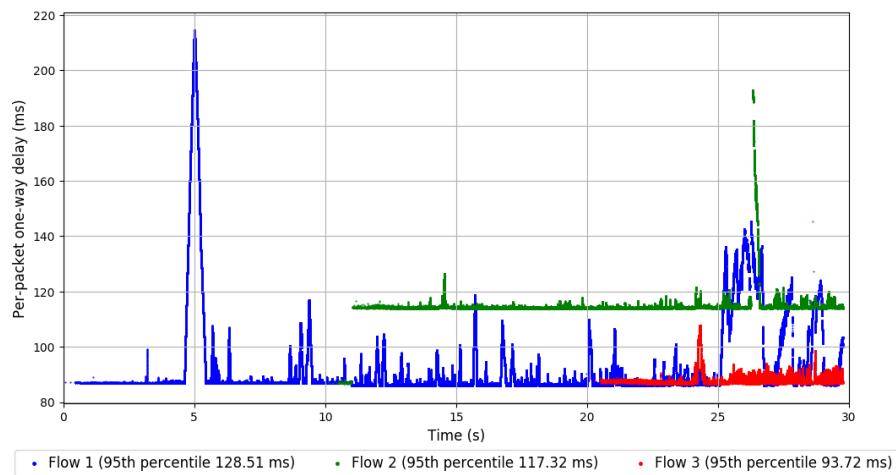
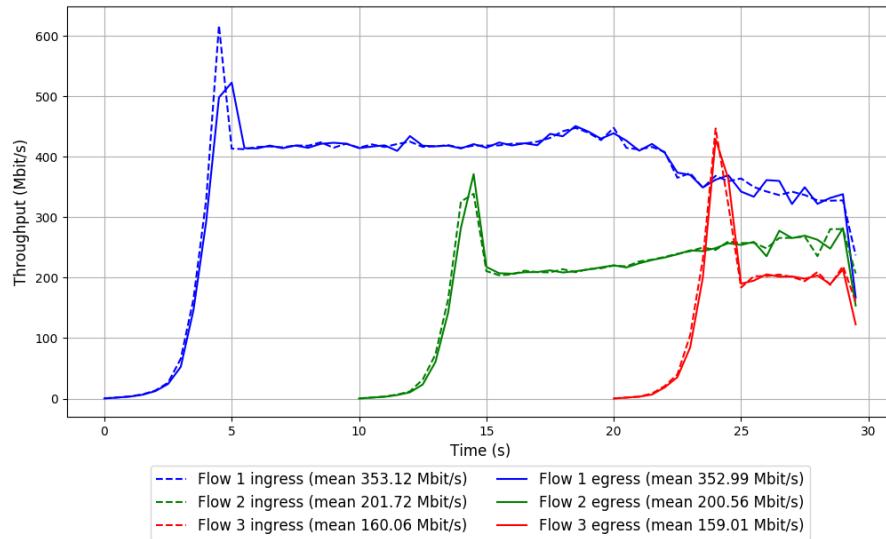
Run 6: Statistics of Vivace-LTE

Start at: 2018-02-17 00:27:58

End at: 2018-02-17 00:28:28

```
# Below is generated by plot.py at 2018-02-17 07:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.34 Mbit/s
95th percentile per-packet one-way delay: 122.003 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 352.99 Mbit/s
95th percentile per-packet one-way delay: 128.507 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 200.56 Mbit/s
95th percentile per-packet one-way delay: 117.323 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 159.01 Mbit/s
95th percentile per-packet one-way delay: 93.717 ms
Loss rate: 2.50%
```

Run 6: Report of Vivace-LTE — Data Link



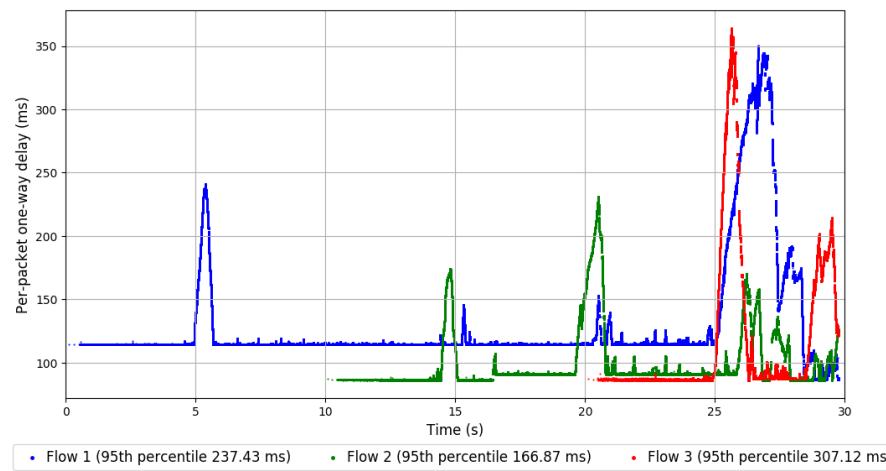
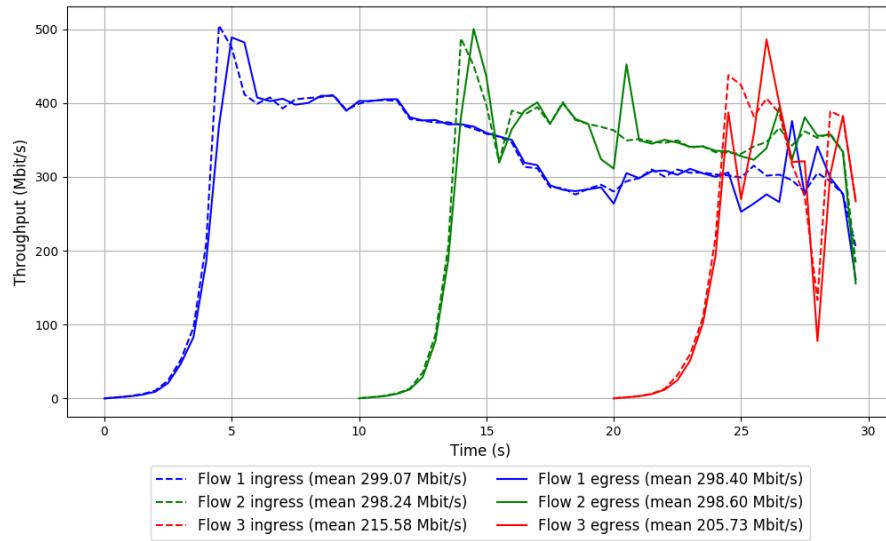
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-17 00:47:12

End at: 2018-02-17 00:47:42

```
# Below is generated by plot.py at 2018-02-17 07:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 563.46 Mbit/s
95th percentile per-packet one-way delay: 215.950 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 298.40 Mbit/s
95th percentile per-packet one-way delay: 237.426 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 298.60 Mbit/s
95th percentile per-packet one-way delay: 166.871 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 205.73 Mbit/s
95th percentile per-packet one-way delay: 307.122 ms
Loss rate: 6.51%
```

Run 7: Report of Vivace-LTE — Data Link



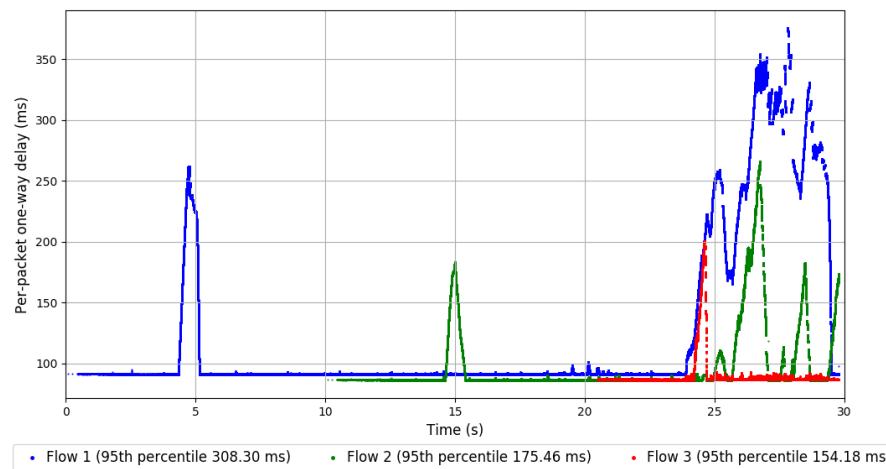
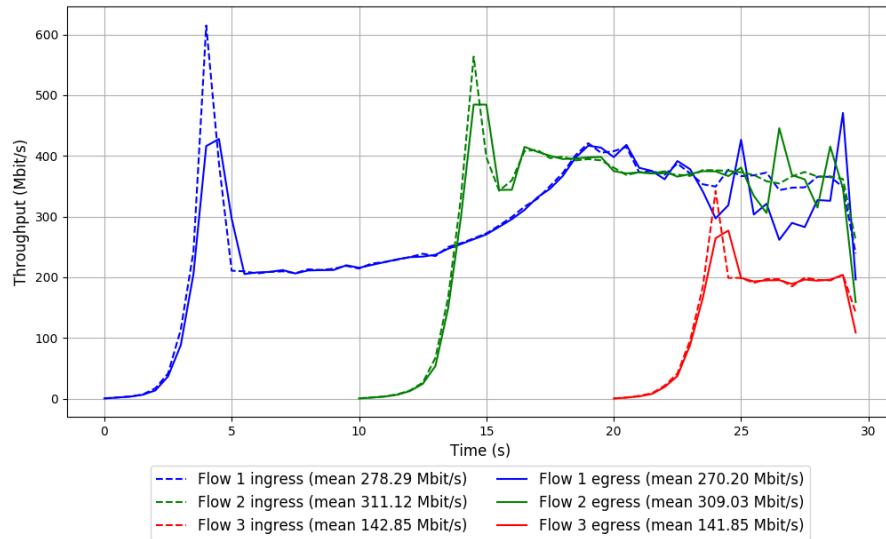
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-17 01:06:04

End at: 2018-02-17 01:06:34

```
# Below is generated by plot.py at 2018-02-17 07:29:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 521.09 Mbit/s
95th percentile per-packet one-way delay: 260.726 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 270.20 Mbit/s
95th percentile per-packet one-way delay: 308.304 ms
Loss rate: 3.35%
-- Flow 2:
Average throughput: 309.03 Mbit/s
95th percentile per-packet one-way delay: 175.463 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 141.85 Mbit/s
95th percentile per-packet one-way delay: 154.182 ms
Loss rate: 2.46%
```

Run 8: Report of Vivace-LTE — Data Link



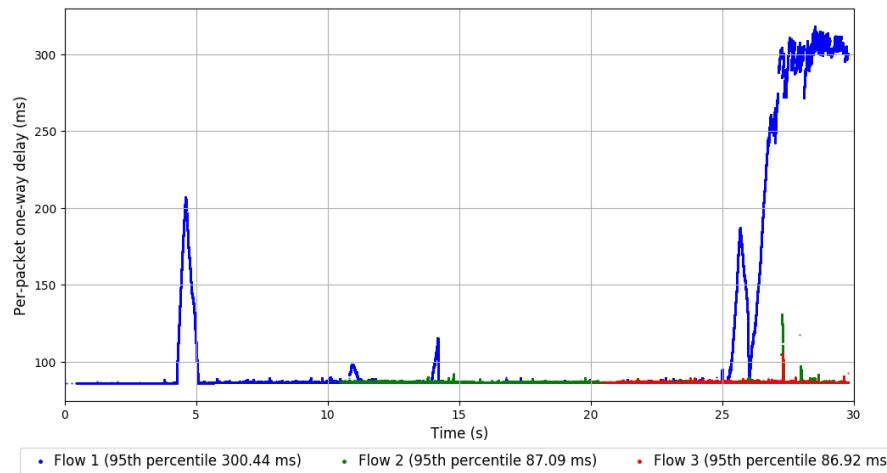
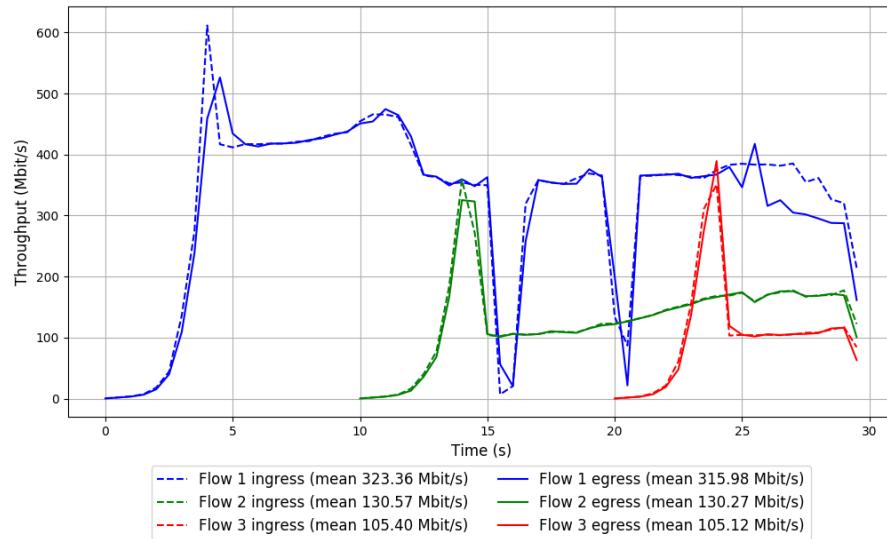
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-17 01:24:53

End at: 2018-02-17 01:25:23

```
# Below is generated by plot.py at 2018-02-17 07:30:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 436.39 Mbit/s
95th percentile per-packet one-way delay: 291.628 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 315.98 Mbit/s
95th percentile per-packet one-way delay: 300.438 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 130.27 Mbit/s
95th percentile per-packet one-way delay: 87.093 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 105.12 Mbit/s
95th percentile per-packet one-way delay: 86.922 ms
Loss rate: 1.97%
```

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-17 01:43:40

End at: 2018-02-17 01:44:10

```
# Below is generated by plot.py at 2018-02-17 07:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.12 Mbit/s
95th percentile per-packet one-way delay: 115.685 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 260.07 Mbit/s
95th percentile per-packet one-way delay: 135.560 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 207.26 Mbit/s
95th percentile per-packet one-way delay: 99.071 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 137.56 Mbit/s
95th percentile per-packet one-way delay: 95.062 ms
Loss rate: 2.77%
```

Run 10: Report of Vivace-LTE — Data Link

