

Pantheon Report

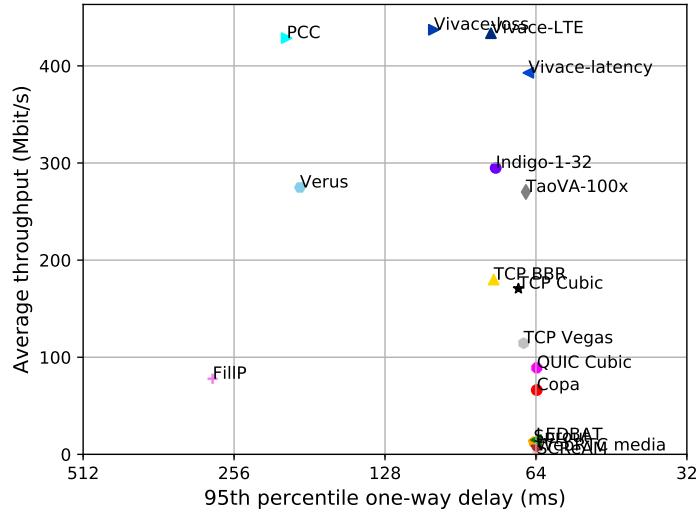
Generated at 2018-02-01 10:11:39 (UTC).
Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

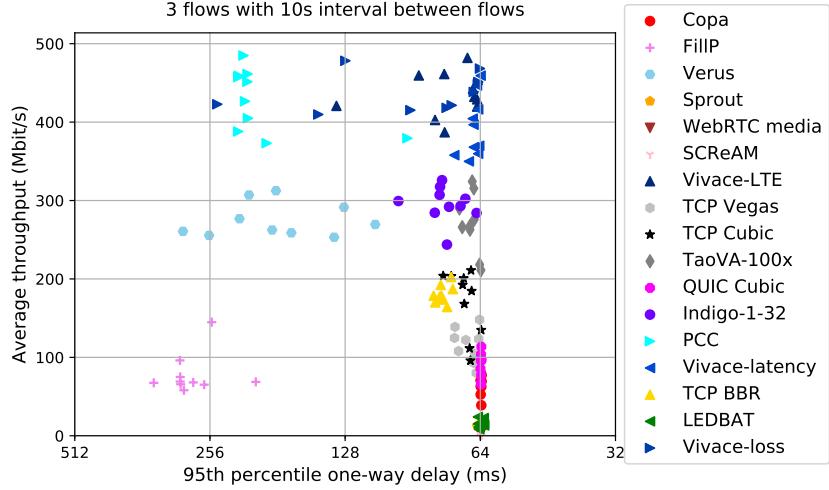
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



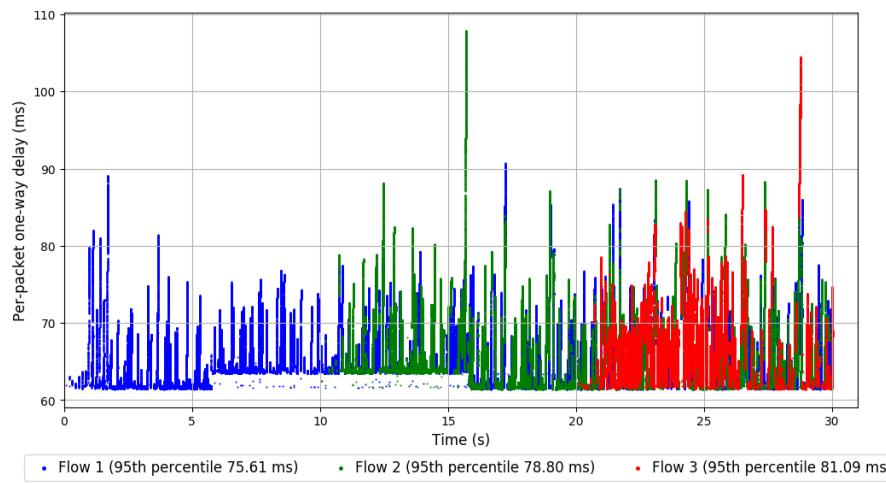
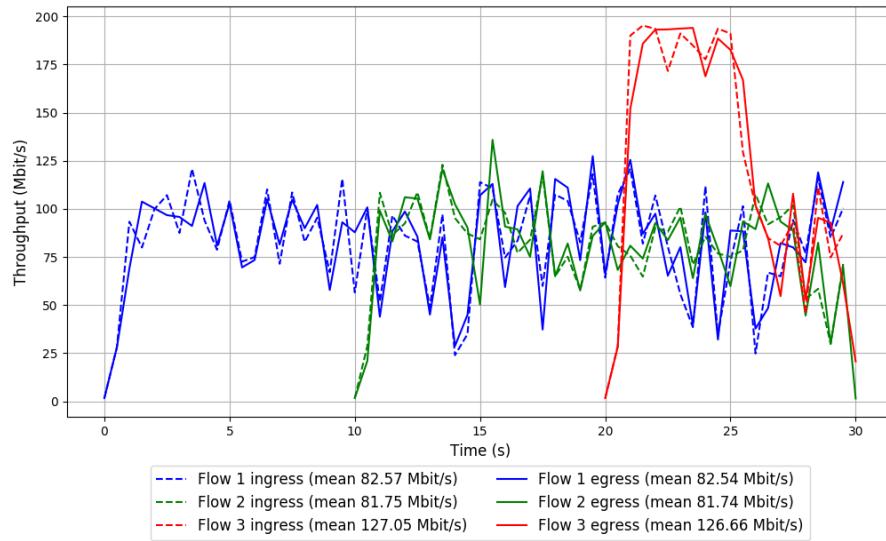
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	84.13	92.95	102.91	76.30	78.07	79.57	0.25	0.05	0.10
TCP Cubic	10	89.58	79.18	85.84	69.14	68.89	68.97	0.14	0.04	0.27
LEDBAT	10	8.38	7.16	5.03	64.06	63.88	63.72	0.57	0.69	0.56
PCC	10	392.86	37.18	33.60	201.02	200.07	182.98	1.20	0.82	0.80
QUIC Cubic	9	43.43	52.76	32.93	63.54	63.55	79.96	0.00	0.00	0.00
SCReAM	9	0.22	0.22	0.22	63.62	63.76	63.17	0.00	0.00	0.00
WebRTC media	10	2.15	1.35	0.54	63.67	63.63	63.87	0.00	0.00	0.00
Sprout	10	6.49	6.43	6.14	64.65	64.72	64.78	0.19	0.21	0.03
TaoVA-100x	9	149.02	132.86	113.83	65.64	67.91	68.72	0.00	0.00	0.00
TCP Vegas	10	59.38	53.42	58.77	67.28	66.50	66.42	0.10	0.08	0.02
Verus	10	161.29	135.54	73.20	159.67	200.21	162.22	0.36	0.75	0.84
Copa	10	33.68	33.17	31.79	63.75	63.67	63.84	0.00	0.00	0.00
FillP	10	24.60	45.07	70.14	300.37	253.13	274.90	6.85	5.82	7.22
Indigo-1-32	10	156.74	148.28	123.78	73.45	77.50	81.74	0.01	0.01	0.01
Vivace-latency	10	221.60	199.22	118.16	71.01	67.98	68.06	0.00	0.00	0.00
Vivace-loss	10	237.47	216.88	170.88	105.95	106.56	68.56	0.30	0.47	0.07
Vivace-LTE	10	242.54	205.80	165.28	79.47	86.86	77.58	0.03	0.01	0.29

```
Run 1: Statistics of TCP BBR

Start at: 2018-02-01 04:16:32
End at: 2018-02-01 04:17:02

# Below is generated by plot.py at 2018-02-01 08:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 178.86 Mbit/s
95th percentile per-packet one-way delay: 78.134 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 82.54 Mbit/s
95th percentile per-packet one-way delay: 75.608 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 81.74 Mbit/s
95th percentile per-packet one-way delay: 78.799 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 126.66 Mbit/s
95th percentile per-packet one-way delay: 81.088 ms
Loss rate: 0.28%
```

Run 1: Report of TCP BBR — Data Link



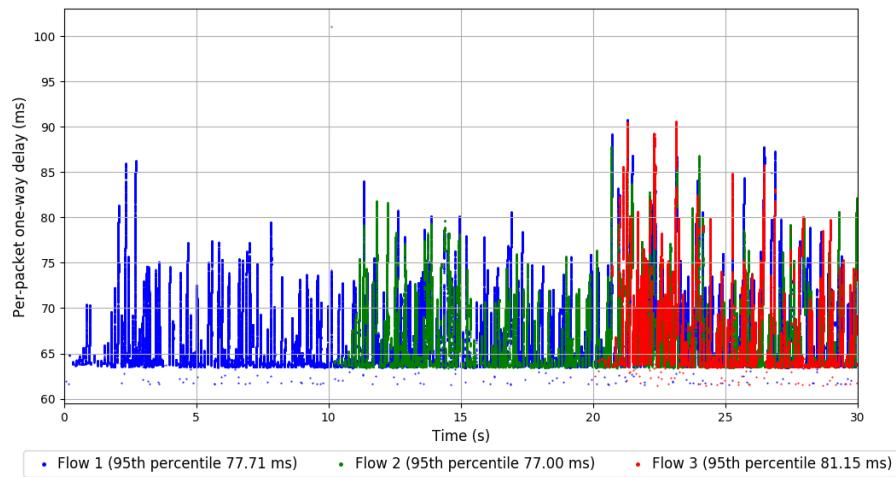
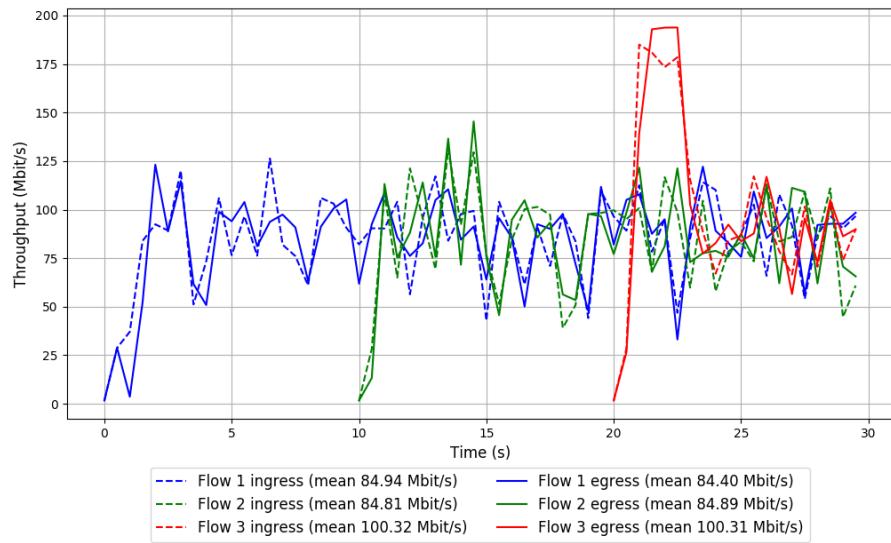
Run 2: Statistics of TCP BBR

Start at: 2018-02-01 04:32:54

End at: 2018-02-01 04:33:24

```
# Below is generated by plot.py at 2018-02-01 08:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 173.76 Mbit/s
95th percentile per-packet one-way delay: 78.415 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 77.714 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 77.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.31 Mbit/s
95th percentile per-packet one-way delay: 81.149 ms
Loss rate: 0.00%
```

Run 2: Report of TCP BBR — Data Link



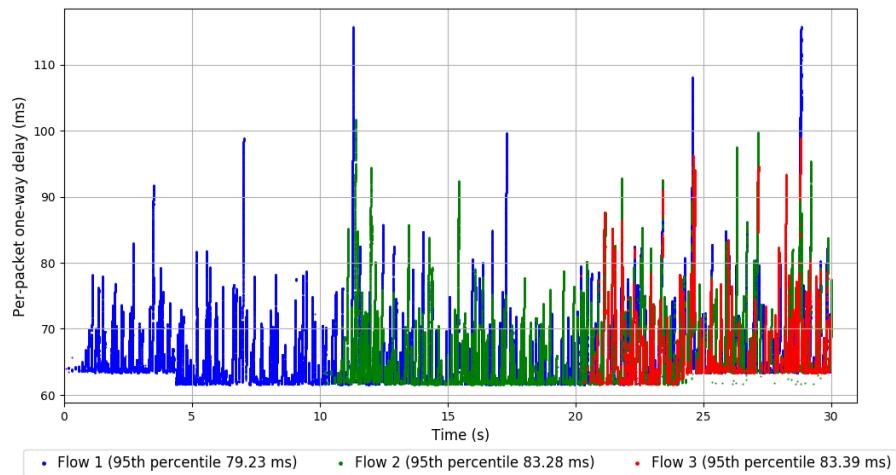
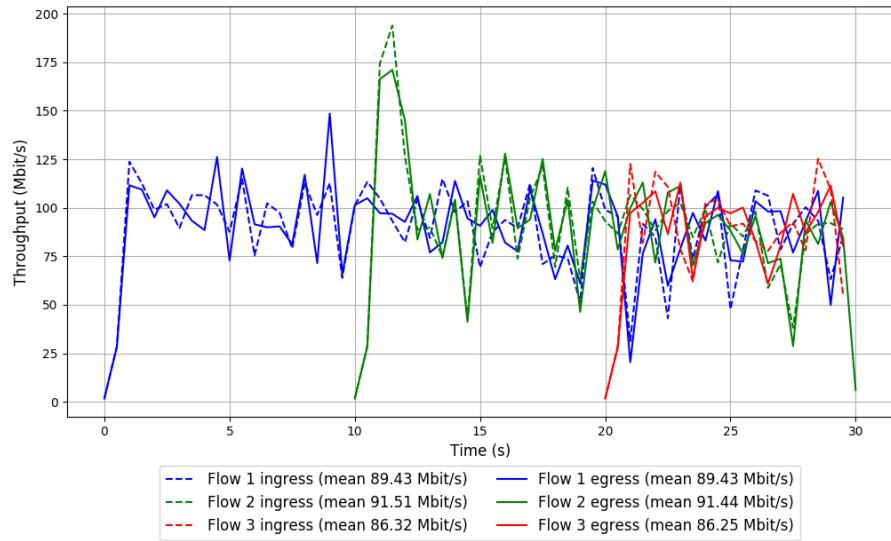
Run 3: Statistics of TCP BBR

Start at: 2018-02-01 04:49:03

End at: 2018-02-01 04:49:33

```
# Below is generated by plot.py at 2018-02-01 08:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 178.61 Mbit/s
95th percentile per-packet one-way delay: 81.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 79.235 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 83.275 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 83.391 ms
Loss rate: 0.00%
```

Run 3: Report of TCP BBR — Data Link



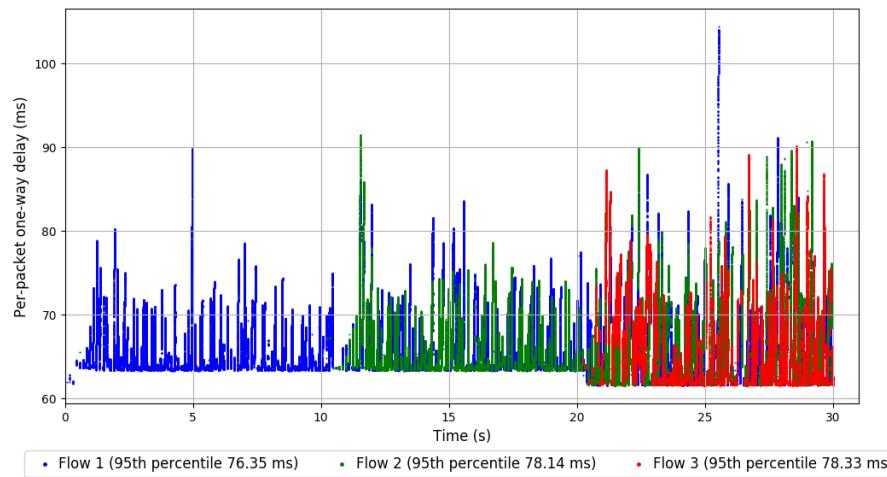
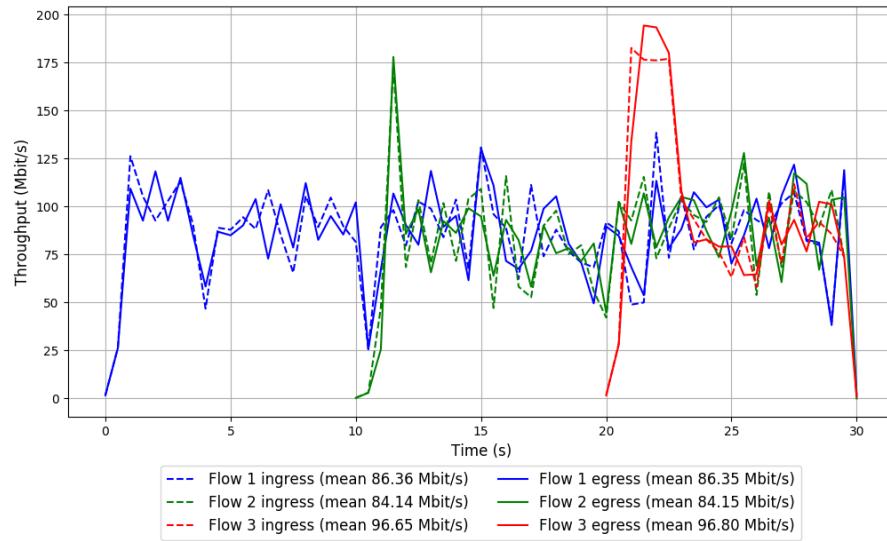
Run 4: Statistics of TCP BBR

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

End at: 2018-02-01 05:05:47

```
# Below is generated by plot.py at 2018-02-01 08:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 174.42 Mbit/s
95th percentile per-packet one-way delay: 77.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 76.354 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 84.15 Mbit/s
95th percentile per-packet one-way delay: 78.142 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 78.325 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link



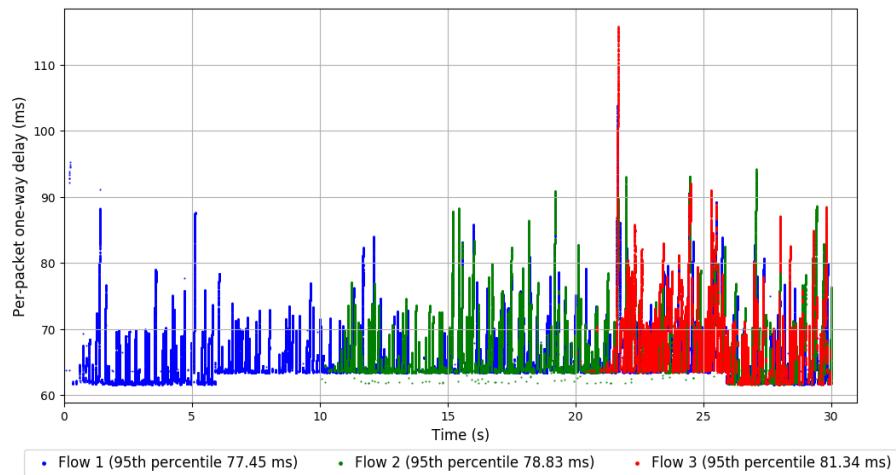
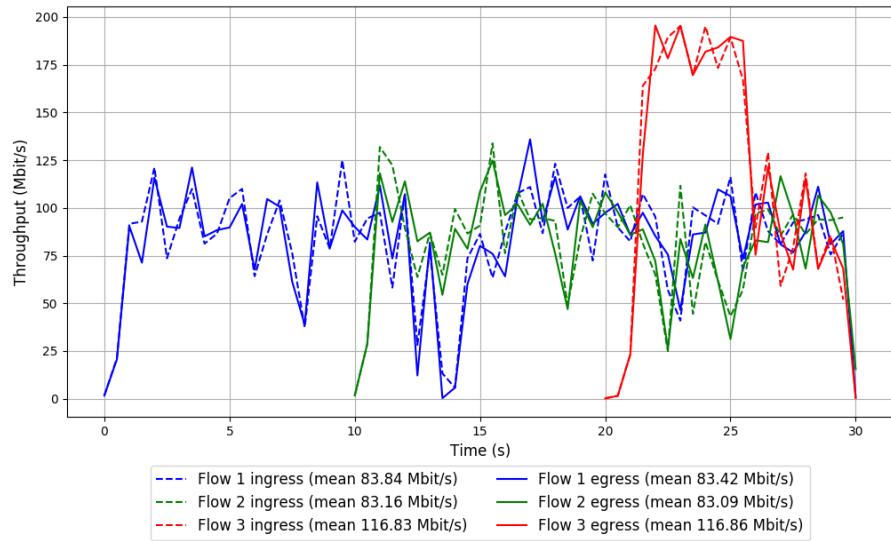
Run 5: Statistics of TCP BBR

Start at: 2018-02-01 05:21:42

End at: 2018-02-01 05:22:12

```
# Below is generated by plot.py at 2018-02-01 08:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 177.43 Mbit/s
95th percentile per-packet one-way delay: 78.811 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 77.448 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 83.09 Mbit/s
95th percentile per-packet one-way delay: 78.829 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 116.86 Mbit/s
95th percentile per-packet one-way delay: 81.336 ms
Loss rate: 0.02%
```

Run 5: Report of TCP BBR — Data Link



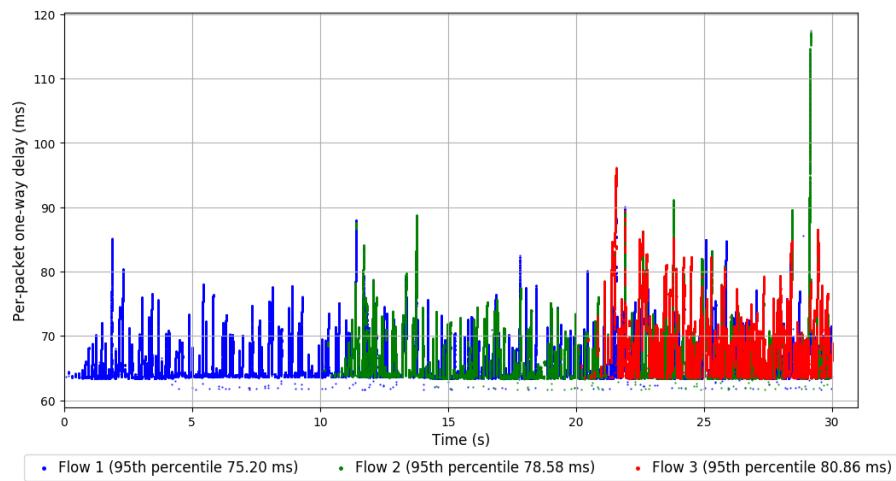
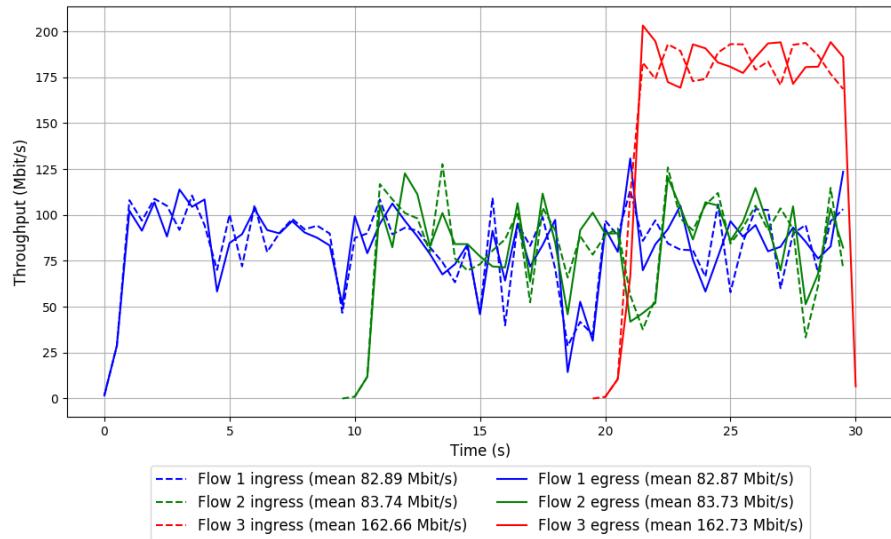
Run 6: Statistics of TCP BBR

Start at: 2018-02-01 05:38:13

End at: 2018-02-01 05:38:43

```
# Below is generated by plot.py at 2018-02-01 08:46:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 192.38 Mbit/s
95th percentile per-packet one-way delay: 78.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.87 Mbit/s
95th percentile per-packet one-way delay: 75.196 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.73 Mbit/s
95th percentile per-packet one-way delay: 78.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 162.73 Mbit/s
95th percentile per-packet one-way delay: 80.858 ms
Loss rate: 0.00%
```

Run 6: Report of TCP BBR — Data Link



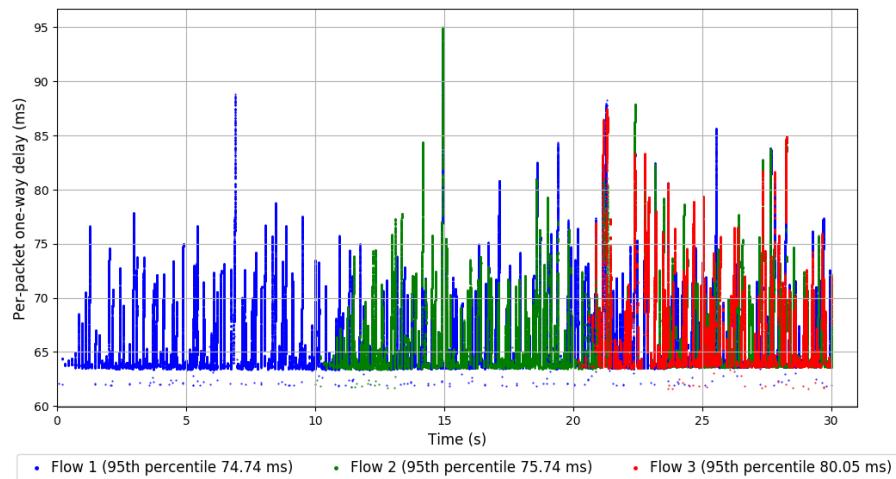
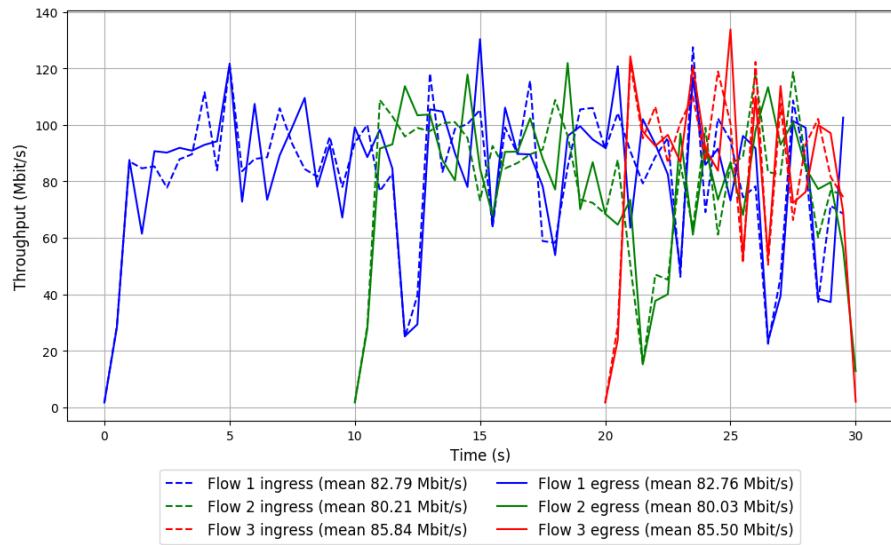
Run 7: Statistics of TCP BBR

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

End at: 2018-02-01 05:55:34

```
# Below is generated by plot.py at 2018-02-01 08:46:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.21 Mbit/s
95th percentile per-packet one-way delay: 75.882 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 74.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 80.03 Mbit/s
95th percentile per-packet one-way delay: 75.739 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 80.054 ms
Loss rate: 0.40%
```

Run 7: Report of TCP BBR — Data Link



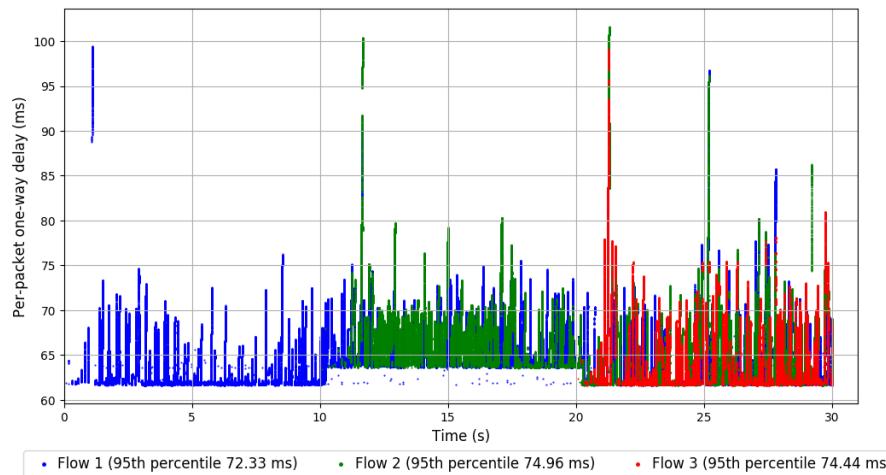
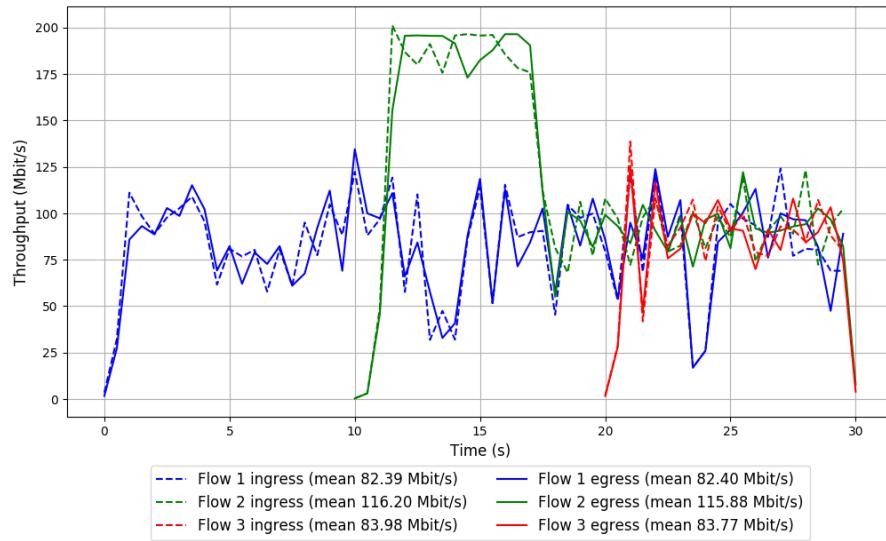
Run 8: Statistics of TCP BBR

Start at: 2018-02-01 06:11:57

End at: 2018-02-01 06:12:27

```
# Below is generated by plot.py at 2018-02-01 08:46:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 187.05 Mbit/s
95th percentile per-packet one-way delay: 73.680 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 82.40 Mbit/s
95th percentile per-packet one-way delay: 72.328 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 115.88 Mbit/s
95th percentile per-packet one-way delay: 74.961 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 83.77 Mbit/s
95th percentile per-packet one-way delay: 74.443 ms
Loss rate: 0.23%
```

Run 8: Report of TCP BBR — Data Link



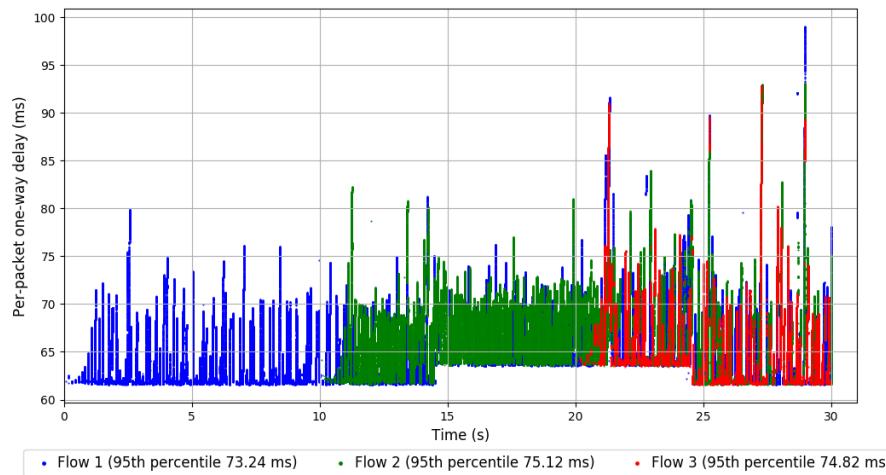
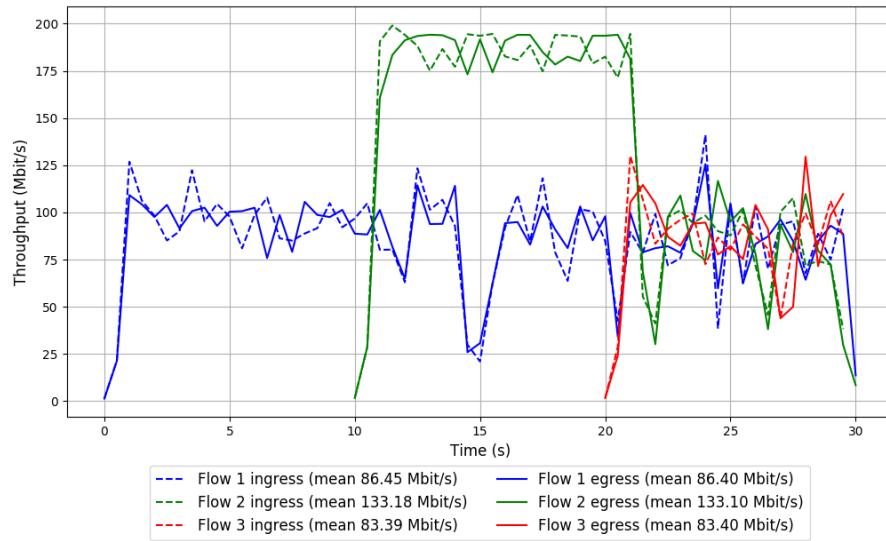
Run 9: Statistics of TCP BBR

Start at: 2018-02-01 06:28:33

End at: 2018-02-01 06:29:03

```
# Below is generated by plot.py at 2018-02-01 08:50:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 202.40 Mbit/s
95th percentile per-packet one-way delay: 74.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 73.240 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 133.10 Mbit/s
95th percentile per-packet one-way delay: 75.121 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 74.823 ms
Loss rate: 0.00%
```

Run 9: Report of TCP BBR — Data Link



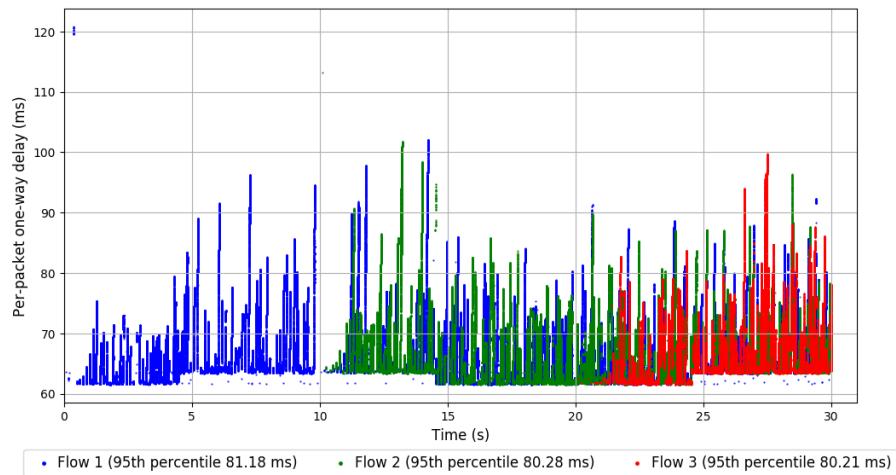
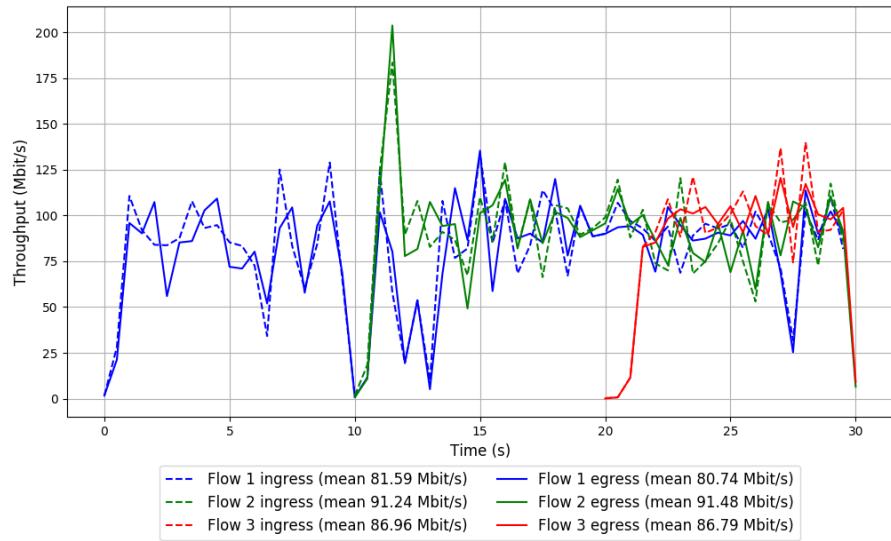
Run 10: Statistics of TCP BBR

Start at: 2018-02-01 06:45:13

End at: 2018-02-01 06:45:43

```
# Below is generated by plot.py at 2018-02-01 08:50:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.06 Mbit/s
95th percentile per-packet one-way delay: 80.634 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 80.74 Mbit/s
95th percentile per-packet one-way delay: 81.179 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 80.280 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 86.79 Mbit/s
95th percentile per-packet one-way delay: 80.208 ms
Loss rate: 0.04%
```

Run 10: Report of TCP BBR — Data Link

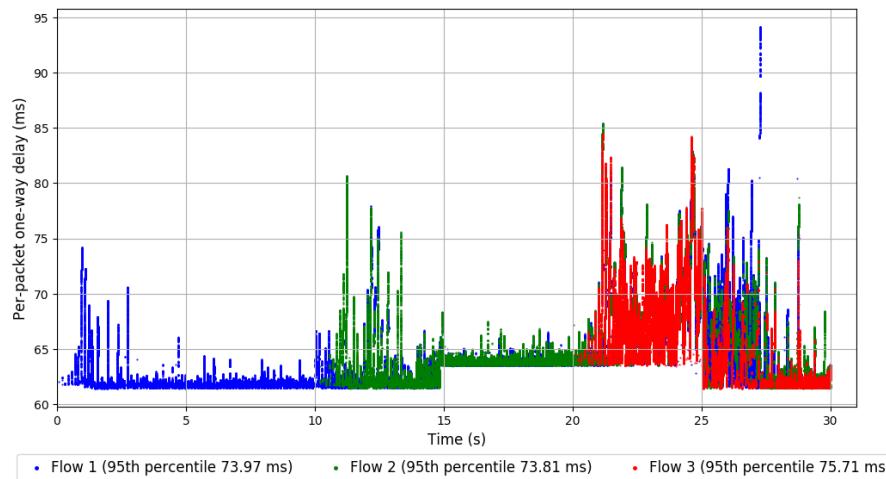
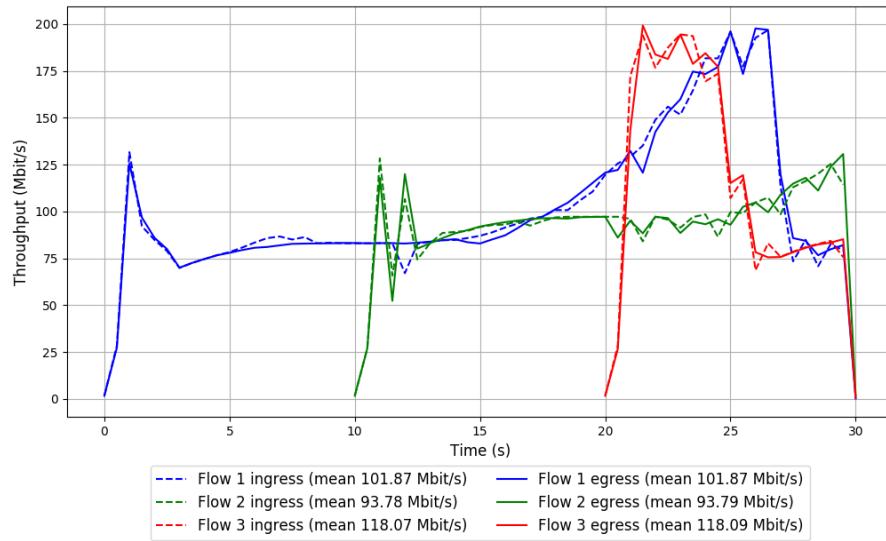


```
Run 1: Statistics of TCP Cubic

Start at: 2018-02-01 04:18:23
End at: 2018-02-01 04:18:53

# Below is generated by plot.py at 2018-02-01 08:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.47 Mbit/s
95th percentile per-packet one-way delay: 74.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.87 Mbit/s
95th percentile per-packet one-way delay: 73.975 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 93.79 Mbit/s
95th percentile per-packet one-way delay: 73.815 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 118.09 Mbit/s
95th percentile per-packet one-way delay: 75.709 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link



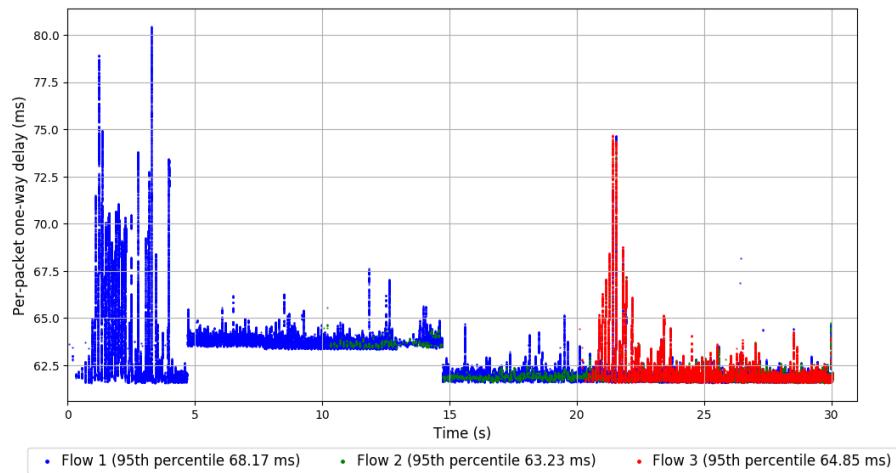
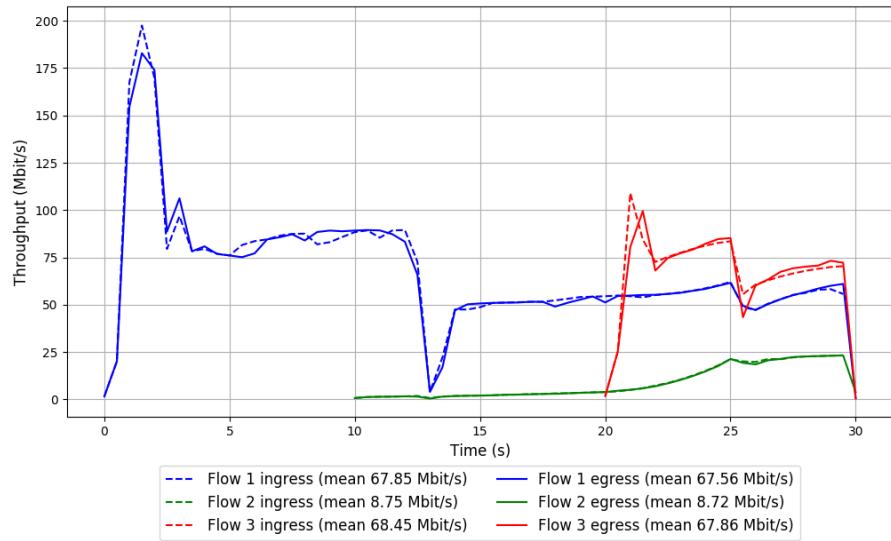
```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2018-02-01 04:34:43
```

```
End at: 2018-02-01 04:35:13
```

```
# Below is generated by plot.py at 2018-02-01 08:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 67.322 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 68.173 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 63.233 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 67.86 Mbit/s
95th percentile per-packet one-way delay: 64.853 ms
Loss rate: 0.89%
```

Run 2: Report of TCP Cubic — Data Link

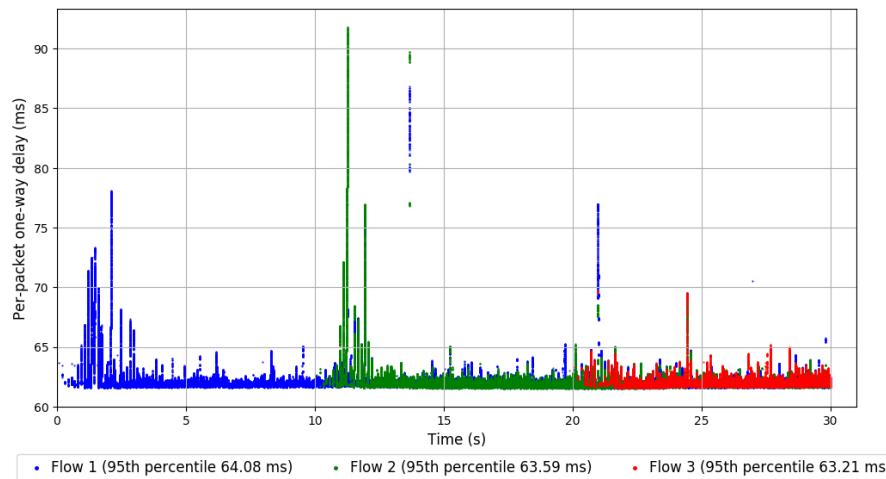
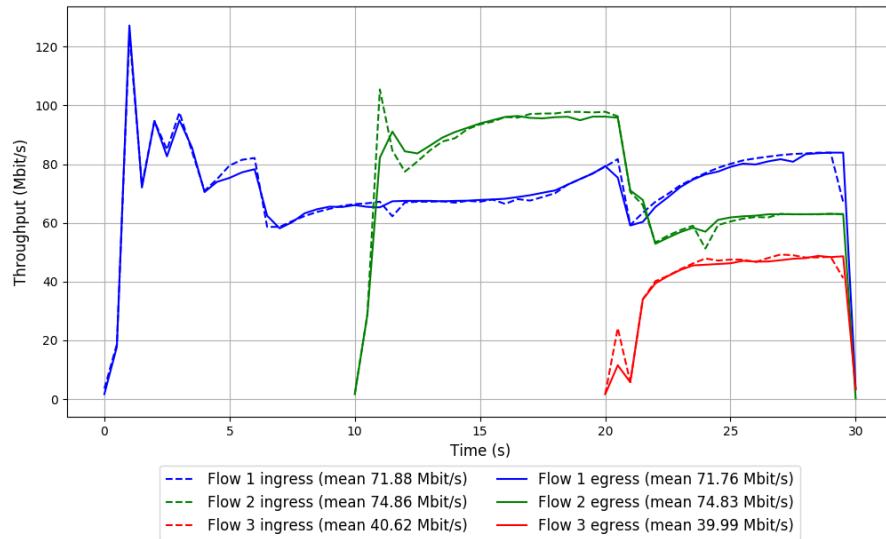


```
Run 3: Statistics of TCP Cubic

Start at: 2018-02-01 04:50:54
End at: 2018-02-01 04:51:24

# Below is generated by plot.py at 2018-02-01 08:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.85 Mbit/s
95th percentile per-packet one-way delay: 63.722 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 71.76 Mbit/s
95th percentile per-packet one-way delay: 64.082 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 74.83 Mbit/s
95th percentile per-packet one-way delay: 63.585 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 63.207 ms
Loss rate: 1.57%
```

Run 3: Report of TCP Cubic — Data Link



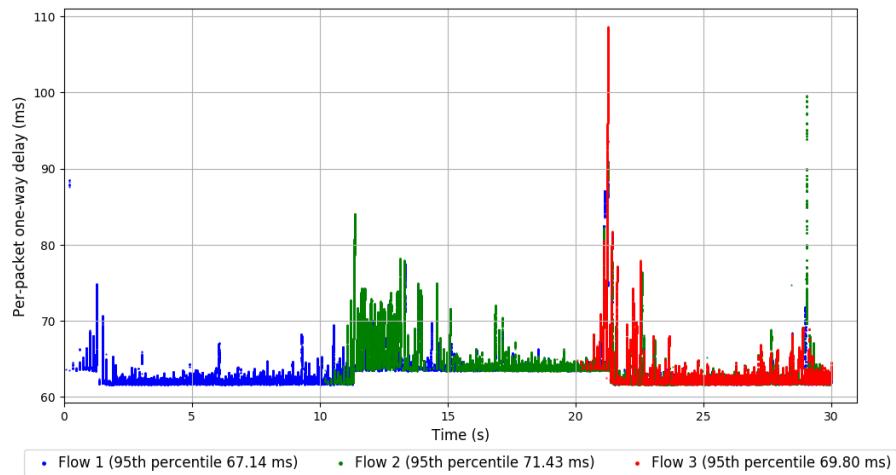
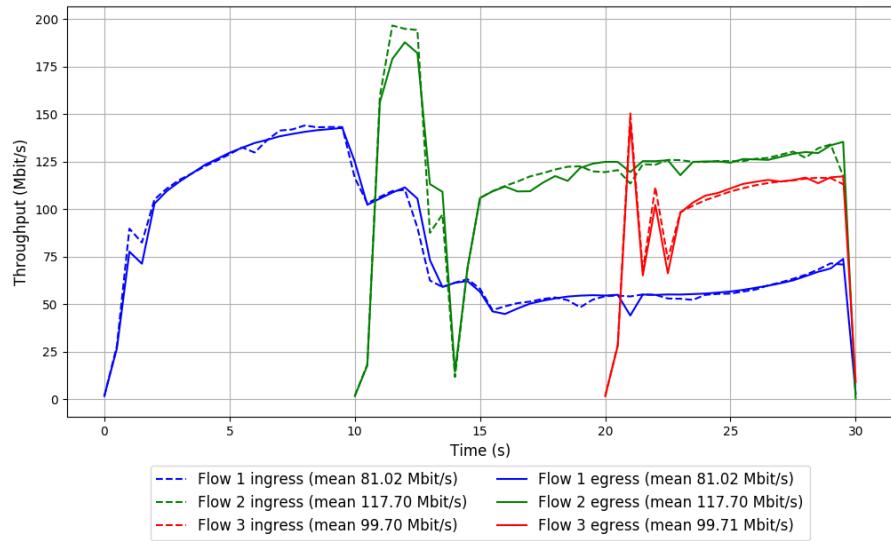
Run 4: Statistics of TCP Cubic

Start at: 2018-02-01 05:07:06

End at: 2018-02-01 05:07:36

```
# Below is generated by plot.py at 2018-02-01 08:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 192.50 Mbit/s
95th percentile per-packet one-way delay: 70.058 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.02 Mbit/s
95th percentile per-packet one-way delay: 67.139 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 117.70 Mbit/s
95th percentile per-packet one-way delay: 71.426 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 99.71 Mbit/s
95th percentile per-packet one-way delay: 69.802 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Cubic — Data Link

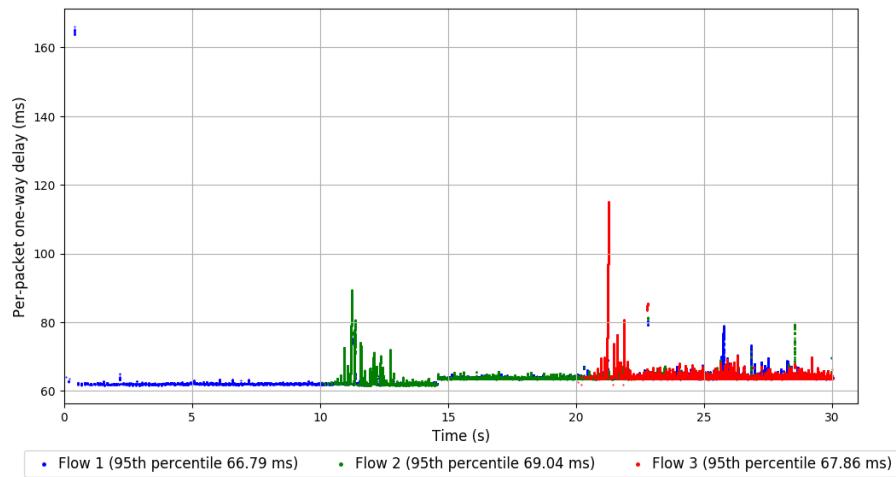
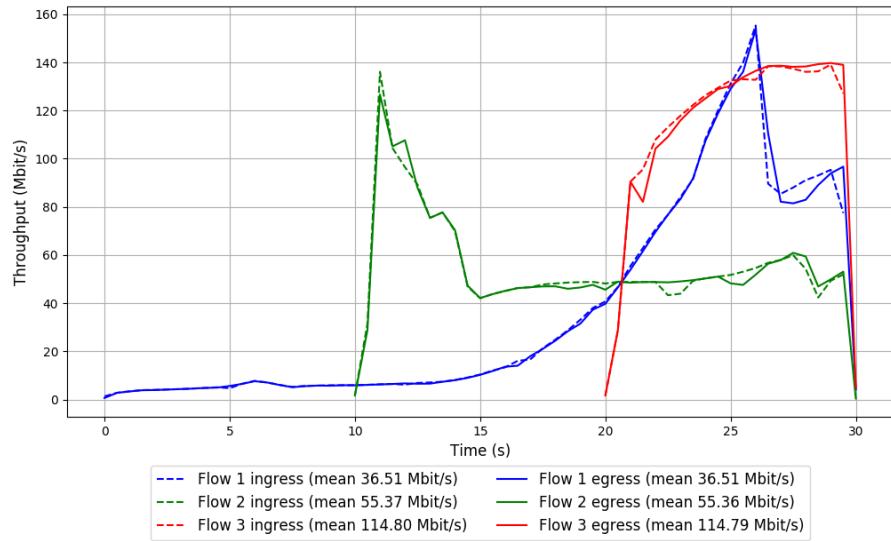


```
Run 5: Statistics of TCP Cubic

Start at: 2018-02-01 05:23:33
End at: 2018-02-01 05:24:03

# Below is generated by plot.py at 2018-02-01 08:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.50 Mbit/s
95th percentile per-packet one-way delay: 67.605 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 36.51 Mbit/s
95th percentile per-packet one-way delay: 66.791 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 69.038 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 114.79 Mbit/s
95th percentile per-packet one-way delay: 67.860 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link

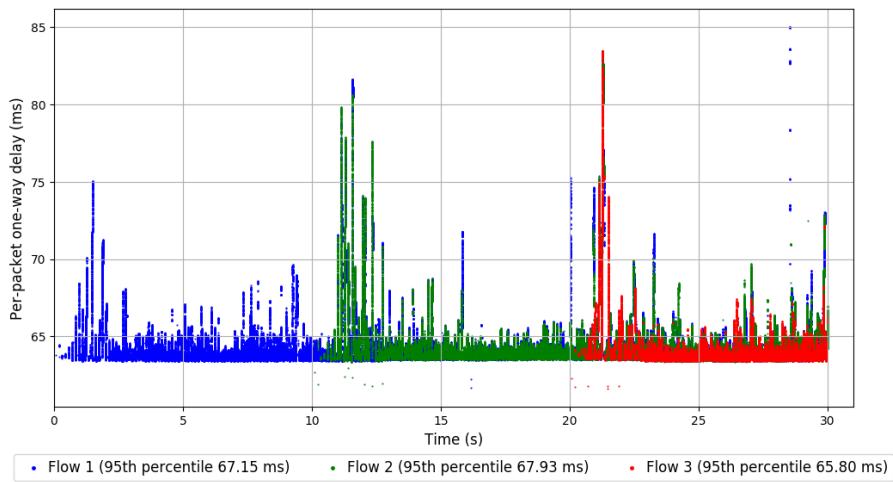
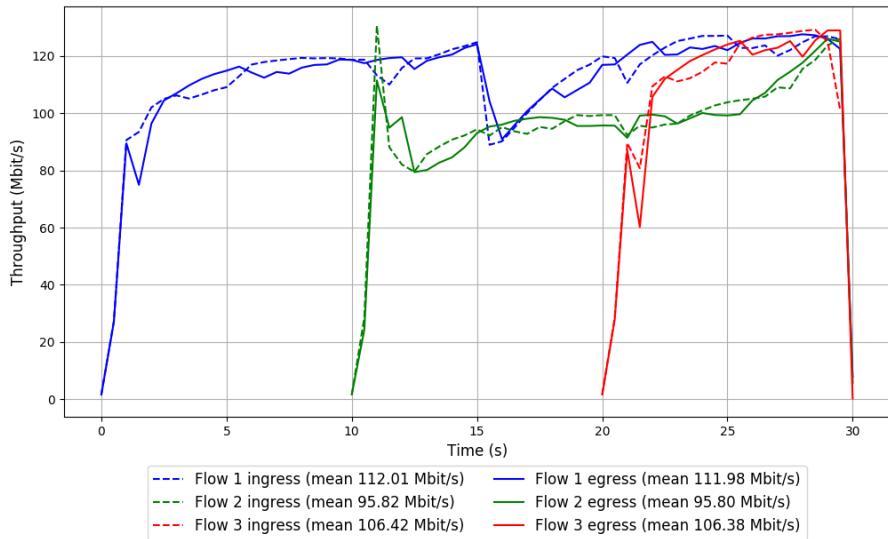


```
Run 6: Statistics of TCP Cubic

Start at: 2018-02-01 05:40:05
End at: 2018-02-01 05:40:35

# Below is generated by plot.py at 2018-02-01 08:51:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.97 Mbit/s
95th percentile per-packet one-way delay: 67.120 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 111.98 Mbit/s
95th percentile per-packet one-way delay: 67.146 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 67.931 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 106.38 Mbit/s
95th percentile per-packet one-way delay: 65.797 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Cubic — Data Link

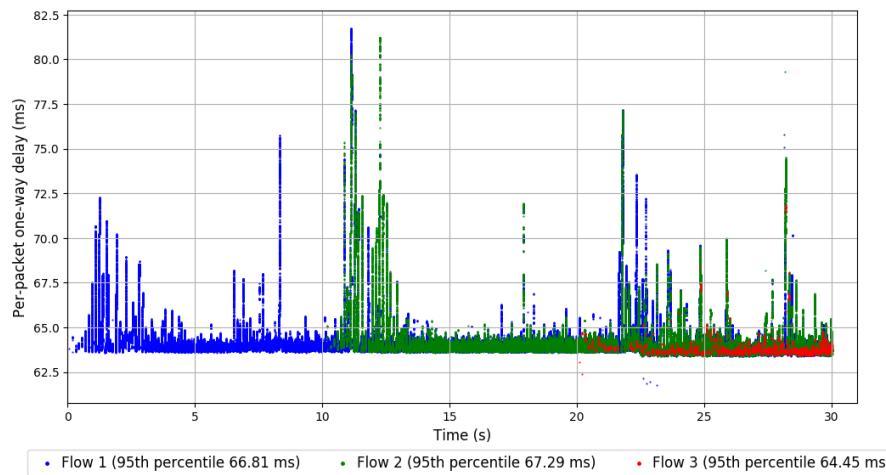
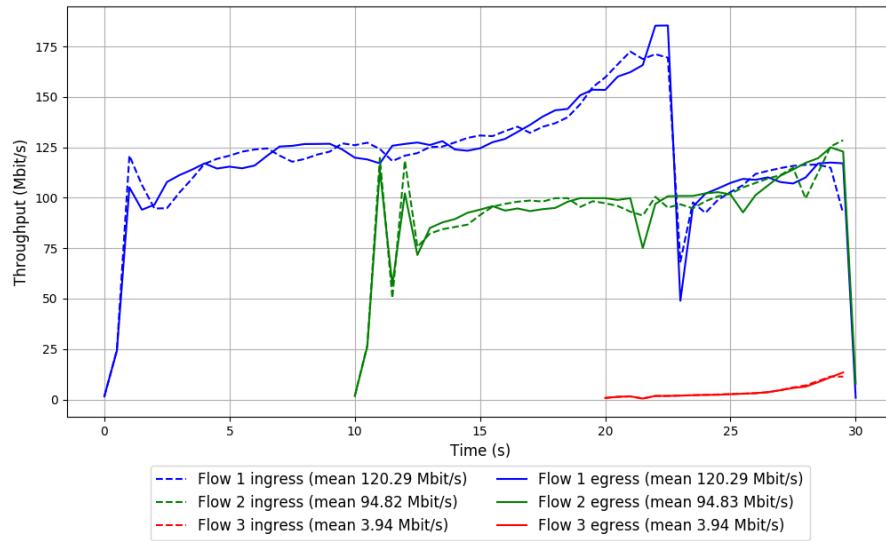


```
Run 7: Statistics of TCP Cubic

Start at: 2018-02-01 05:56:55
End at: 2018-02-01 05:57:25

# Below is generated by plot.py at 2018-02-01 08:52:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 184.65 Mbit/s
95th percentile per-packet one-way delay: 66.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 120.29 Mbit/s
95th percentile per-packet one-way delay: 66.811 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 94.83 Mbit/s
95th percentile per-packet one-way delay: 67.287 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 64.452 ms
Loss rate: 0.09%
```

Run 7: Report of TCP Cubic — Data Link



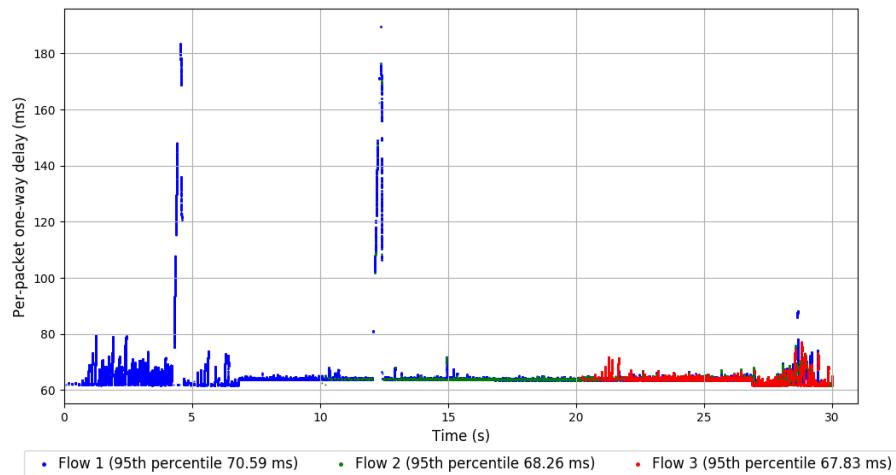
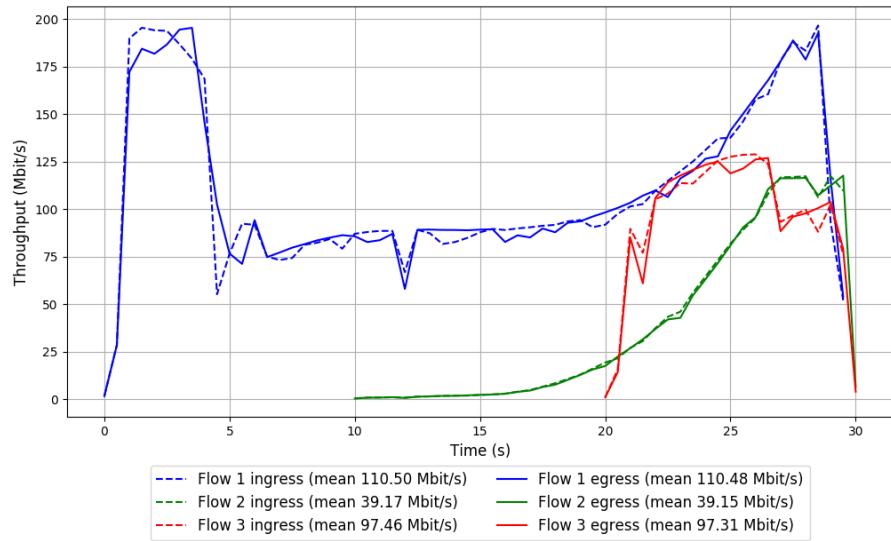
```
Run 8: Statistics of TCP Cubic
```

```
Start at: 2018-02-01 06:13:51
```

```
End at: 2018-02-01 06:14:21
```

```
# Below is generated by plot.py at 2018-02-01 08:52:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.13 Mbit/s
95th percentile per-packet one-way delay: 69.475 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 110.48 Mbit/s
95th percentile per-packet one-way delay: 70.586 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 68.260 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 67.834 ms
Loss rate: 0.17%
```

Run 8: Report of TCP Cubic — Data Link



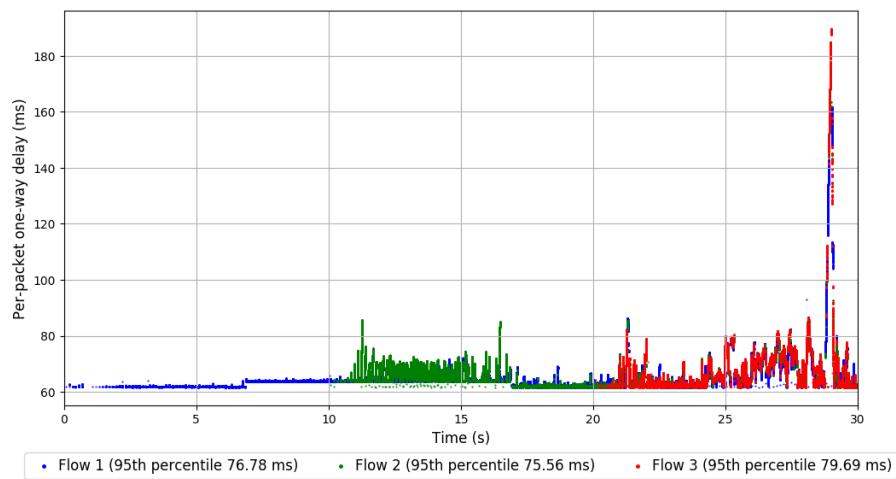
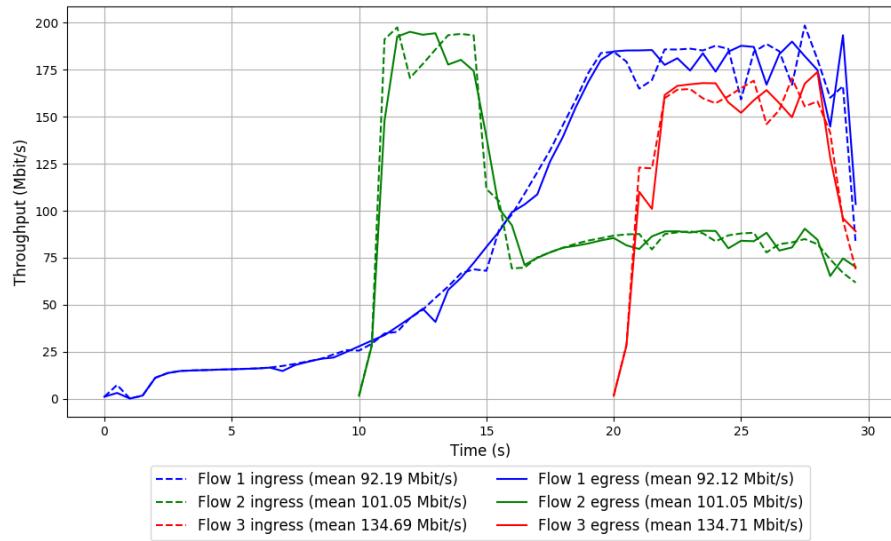
Run 9: Statistics of TCP Cubic

Start at: 2018-02-01 06:30:30

End at: 2018-02-01 06:31:00

```
# Below is generated by plot.py at 2018-02-01 08:53:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.86 Mbit/s
95th percentile per-packet one-way delay: 77.405 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 76.778 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 101.05 Mbit/s
95th percentile per-packet one-way delay: 75.558 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.71 Mbit/s
95th percentile per-packet one-way delay: 79.688 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Cubic — Data Link



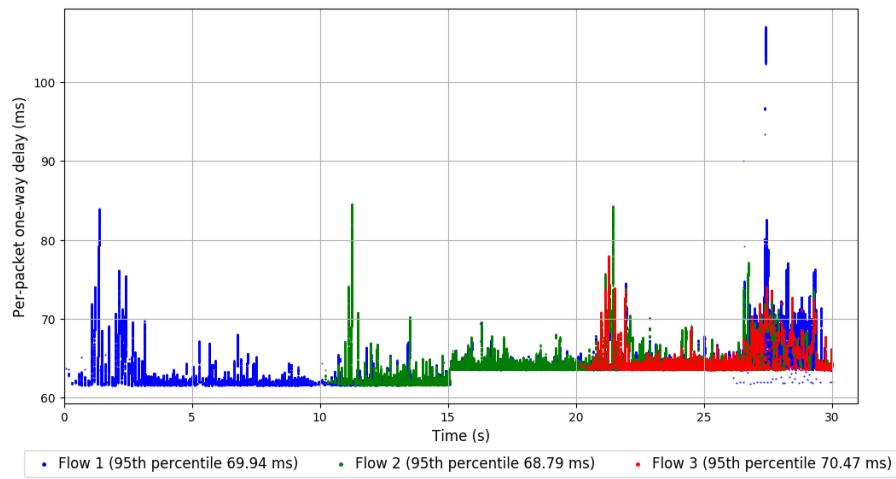
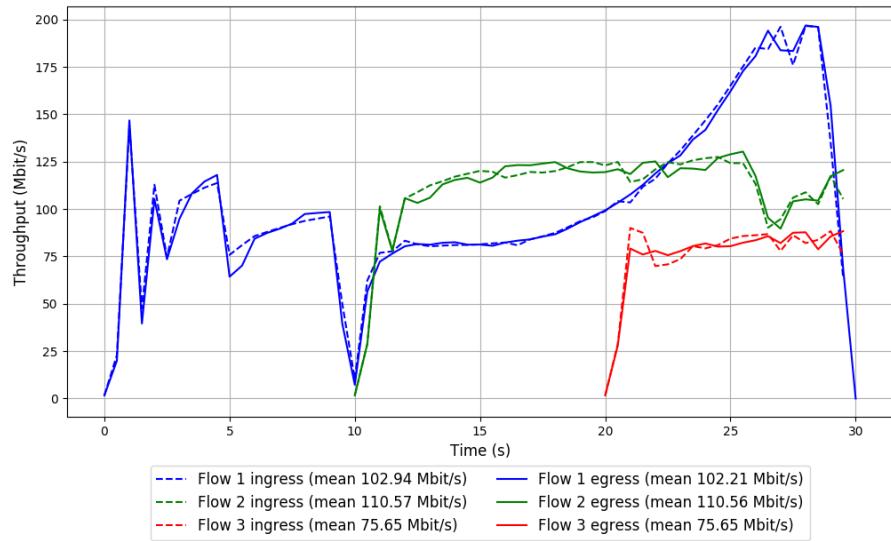
Run 10: Statistics of TCP Cubic

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

End at: 2018-02-01 06:47:32

```
# Below is generated by plot.py at 2018-02-01 08:53:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 200.75 Mbit/s
95th percentile per-packet one-way delay: 69.701 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 102.21 Mbit/s
95th percentile per-packet one-way delay: 69.940 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 110.56 Mbit/s
95th percentile per-packet one-way delay: 68.793 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 70.467 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Cubic — Data Link

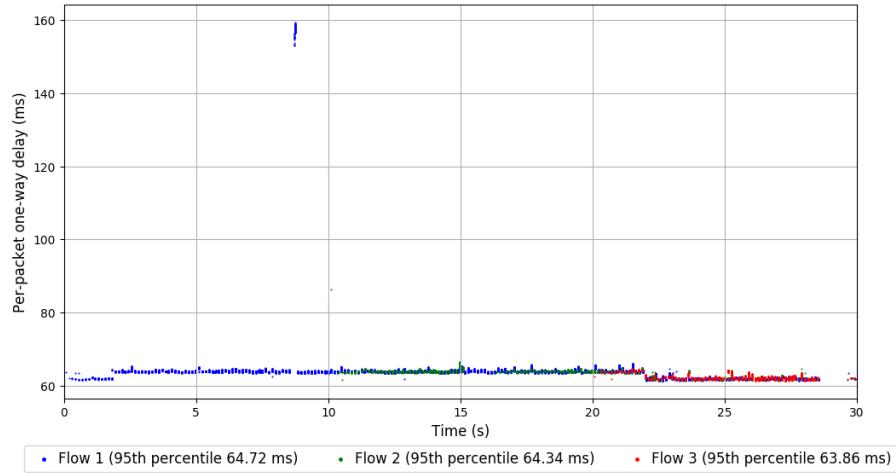
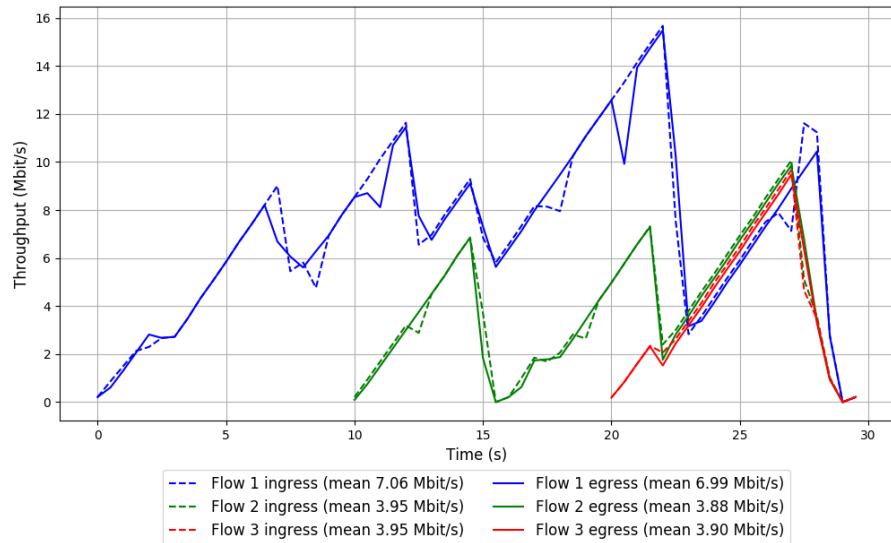


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-01 04:19:16
End at: 2018-02-01 04:19:46

# Below is generated by plot.py at 2018-02-01 08:53:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 64.552 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 64.723 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 64.336 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 63.861 ms
Loss rate: 1.33%
```

Run 1: Report of LEDBAT — Data Link



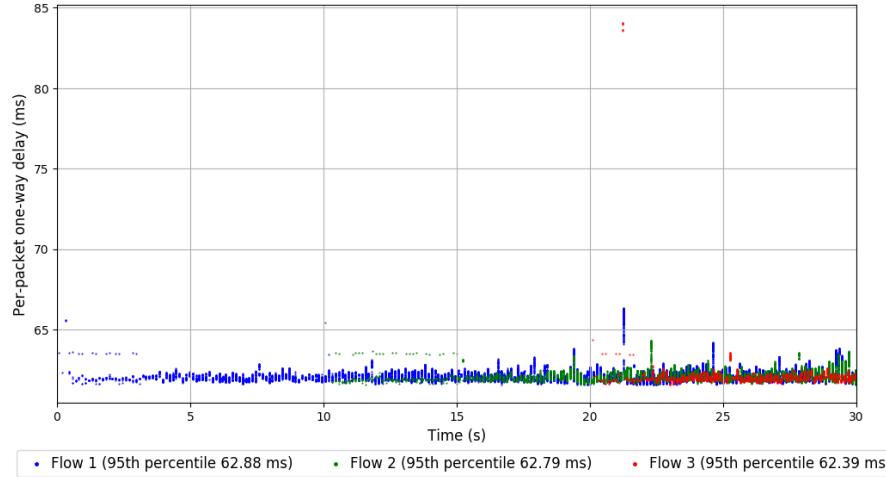
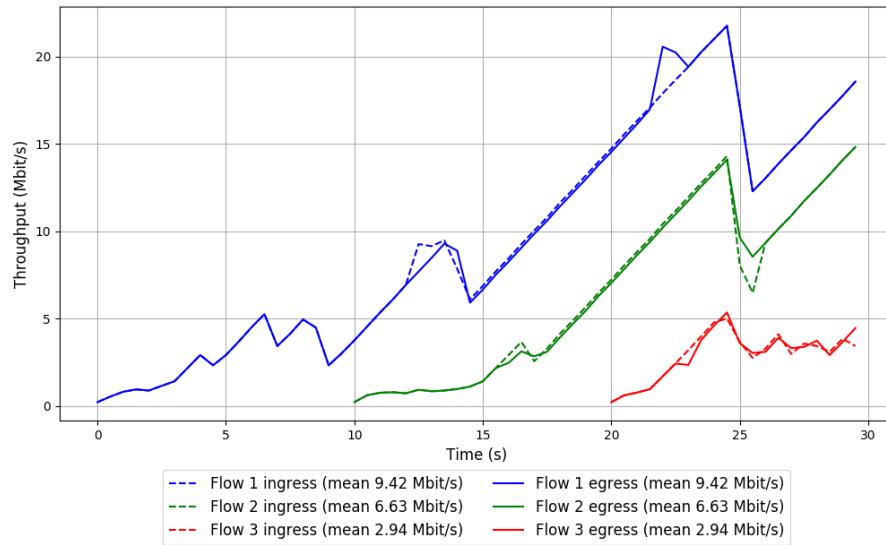
Run 2: Statistics of LEDBAT

Start at: 2018-02-01 04:35:29

End at: 2018-02-01 04:35:59

```
# Below is generated by plot.py at 2018-02-01 08:53:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 62.825 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 62.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 62.787 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 62.393 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



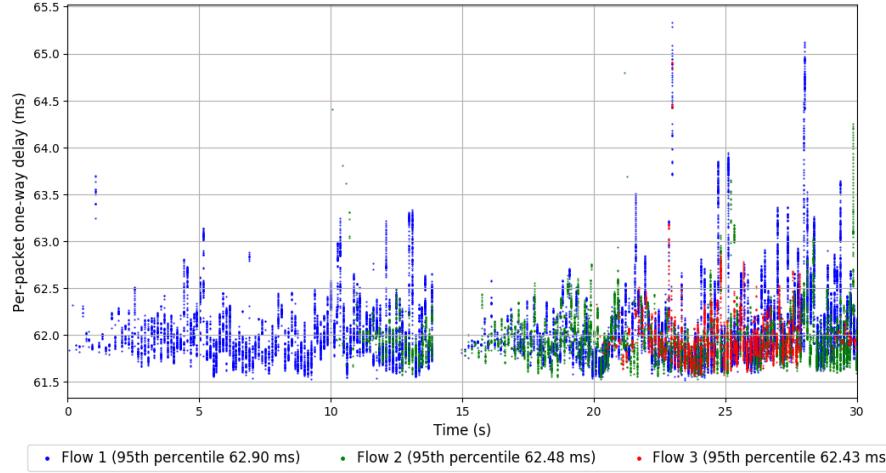
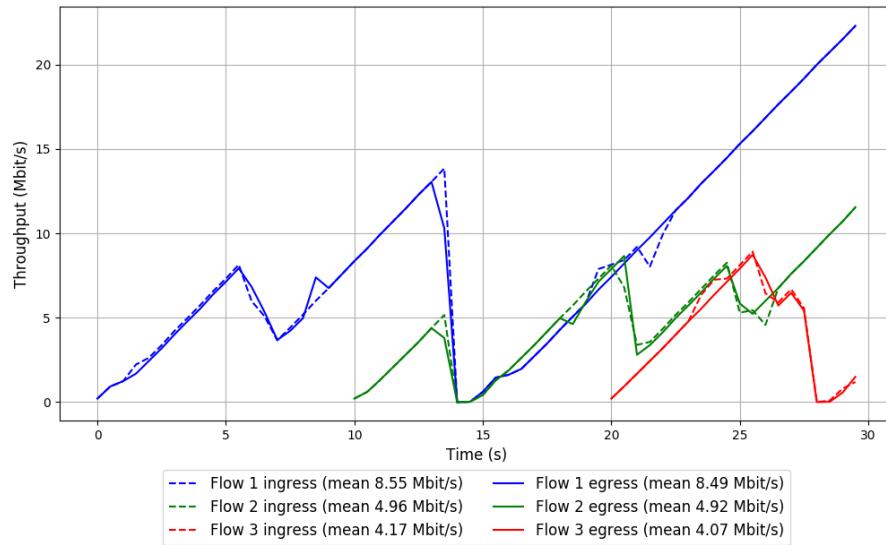
Run 3: Statistics of LEDBAT

Start at: 2018-02-01 04:51:42

End at: 2018-02-01 04:52:12

```
# Below is generated by plot.py at 2018-02-01 08:53:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 62.754 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 62.900 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 62.476 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 62.426 ms
Loss rate: 2.32%
```

Run 3: Report of LEDBAT — Data Link



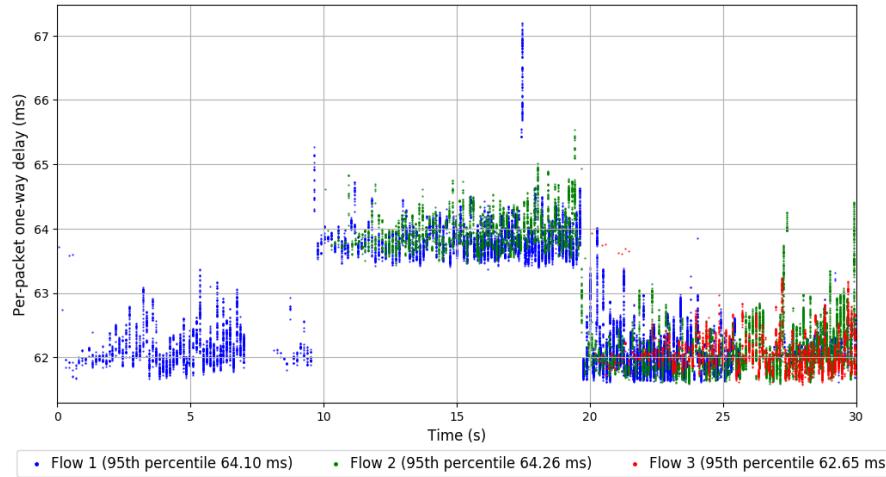
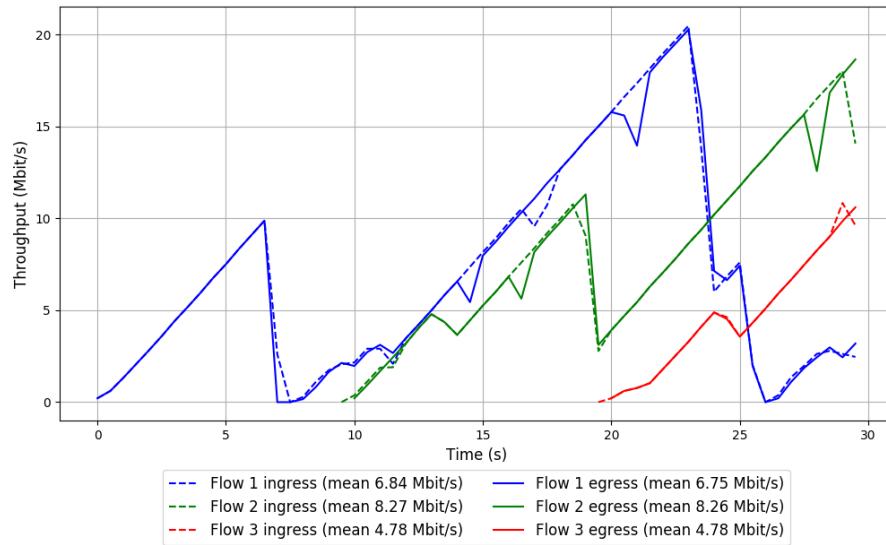
Run 4: Statistics of LEDBAT

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

End at: 2018-02-01 05:08:28

```
# Below is generated by plot.py at 2018-02-01 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 64.104 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 64.259 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 62.646 ms
Loss rate: 0.10%
```

Run 4: Report of LEDBAT — Data Link



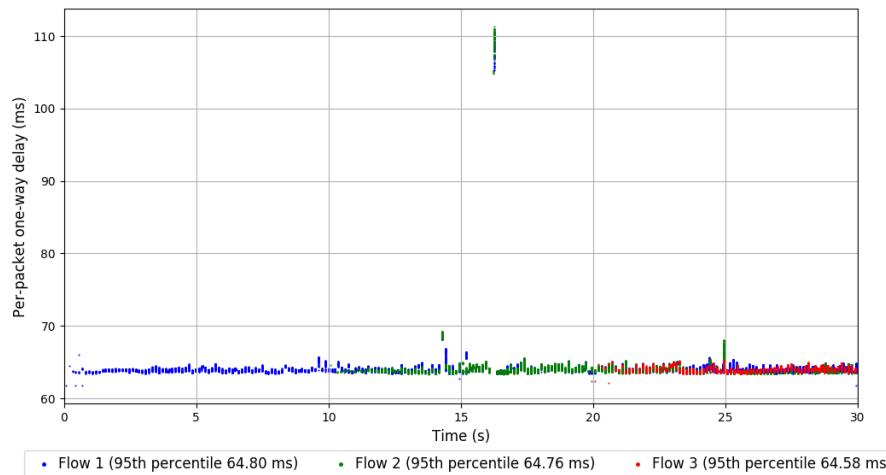
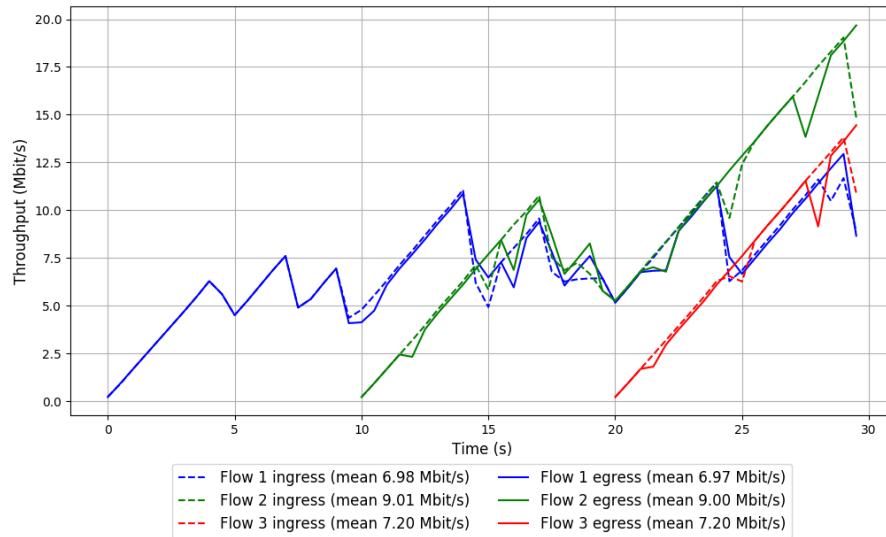
Run 5: Statistics of LEDBAT

Start at: 2018-02-01 05:24:20

End at: 2018-02-01 05:24:50

```
# Below is generated by plot.py at 2018-02-01 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.32 Mbit/s
95th percentile per-packet one-way delay: 64.745 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 64.797 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 64.761 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 64.584 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link



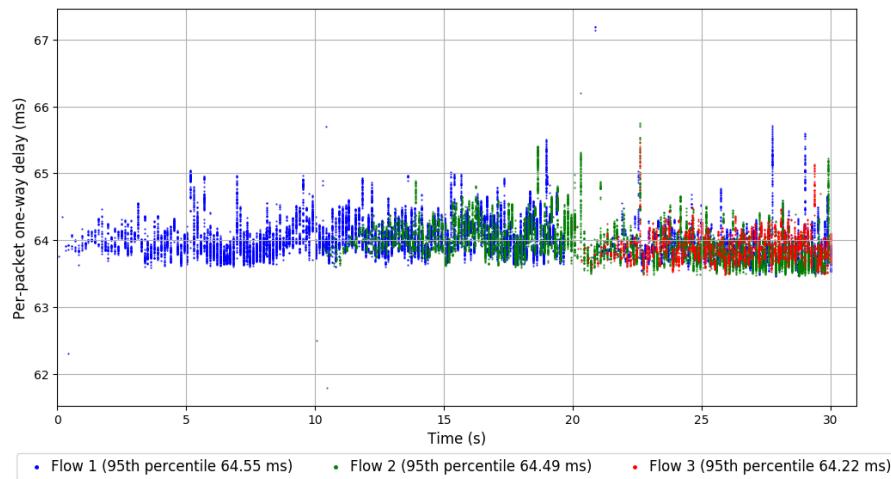
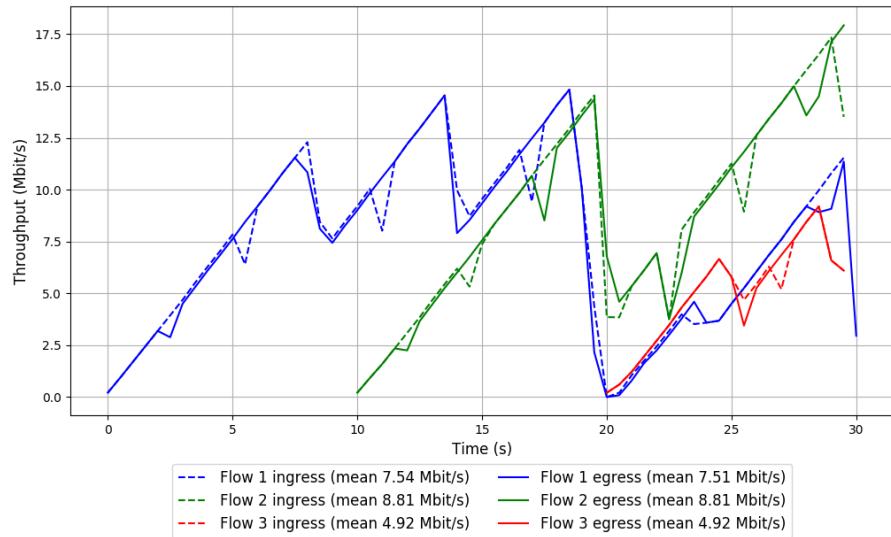
Run 6: Statistics of LEDBAT

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

End at: 2018-02-01 05:41:27

```
# Below is generated by plot.py at 2018-02-01 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 64.500 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 64.547 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 64.489 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 64.223 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link



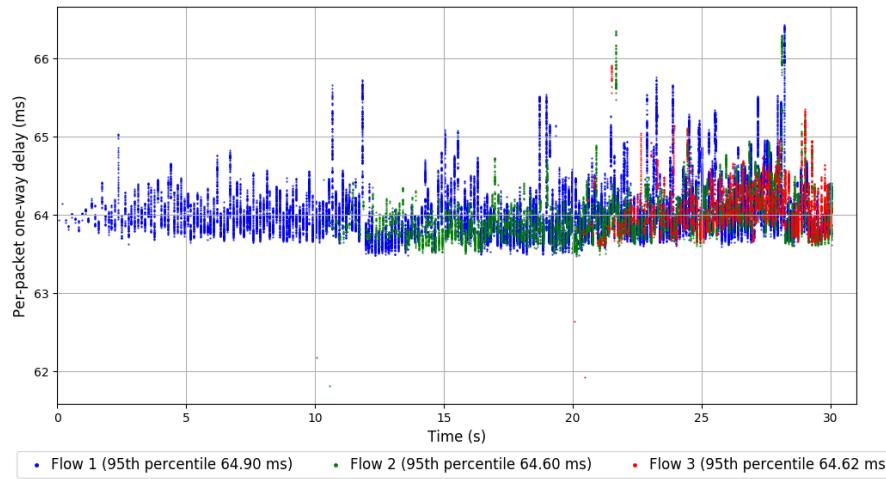
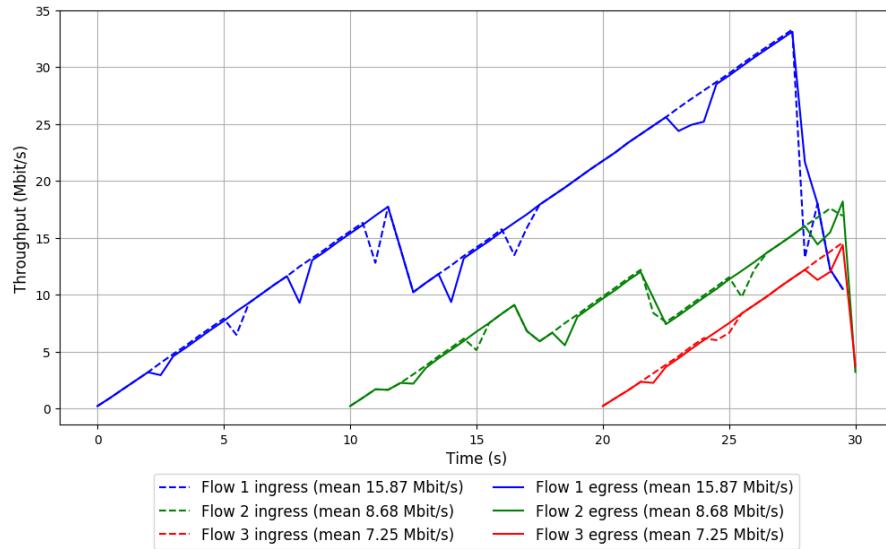
Run 7: Statistics of LEDBAT

Start at: 2018-02-01 05:57:46

End at: 2018-02-01 05:58:16

```
# Below is generated by plot.py at 2018-02-01 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 64.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.87 Mbit/s
95th percentile per-packet one-way delay: 64.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 64.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 64.617 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



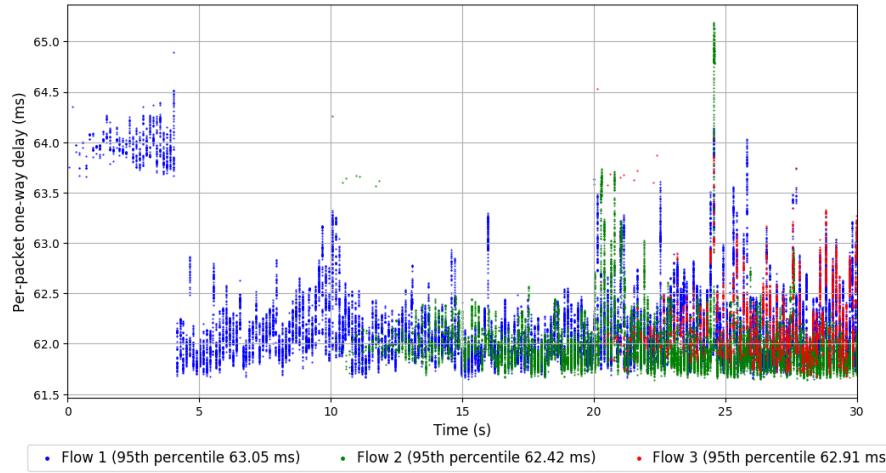
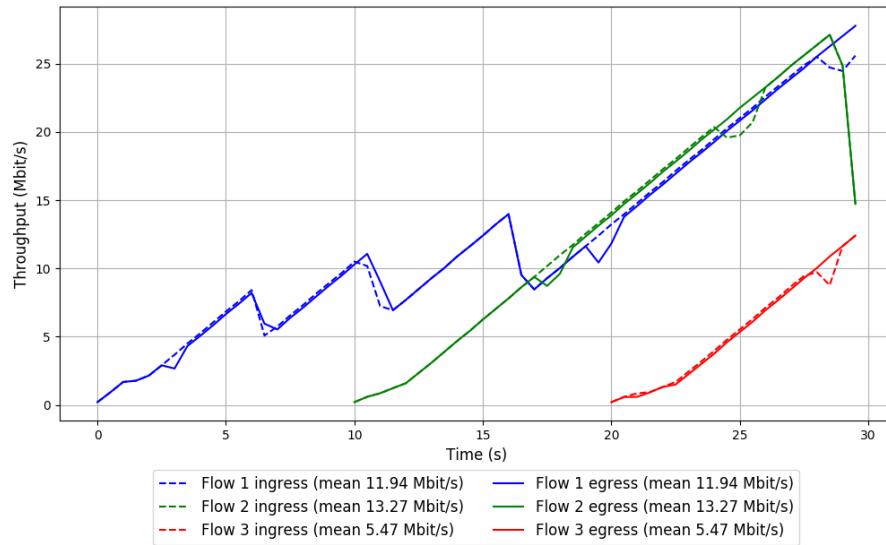
Run 8: Statistics of LEDBAT

Start at: 2018-02-01 06:14:43

End at: 2018-02-01 06:15:13

```
# Below is generated by plot.py at 2018-02-01 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 62.874 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 63.054 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 62.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 62.908 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link



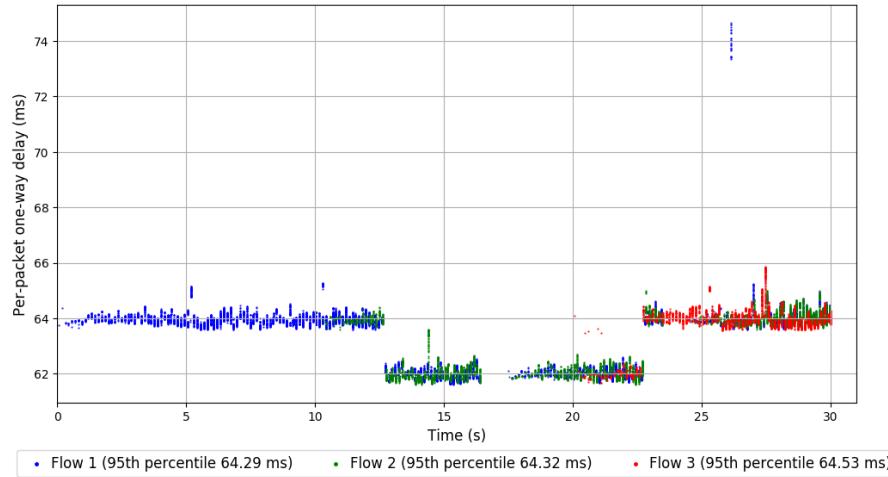
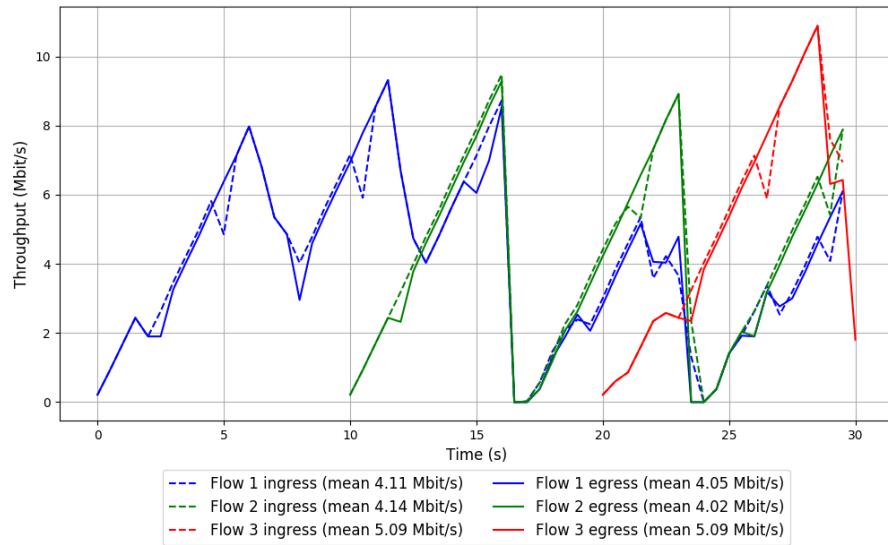
Run 9: Statistics of LEDBAT

Start at: 2018-02-01 06:31:25

End at: 2018-02-01 06:31:55

```
# Below is generated by plot.py at 2018-02-01 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 64.350 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 64.287 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 64.324 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 64.527 ms
Loss rate: 0.00%
```

Run 9: Report of LEDBAT — Data Link



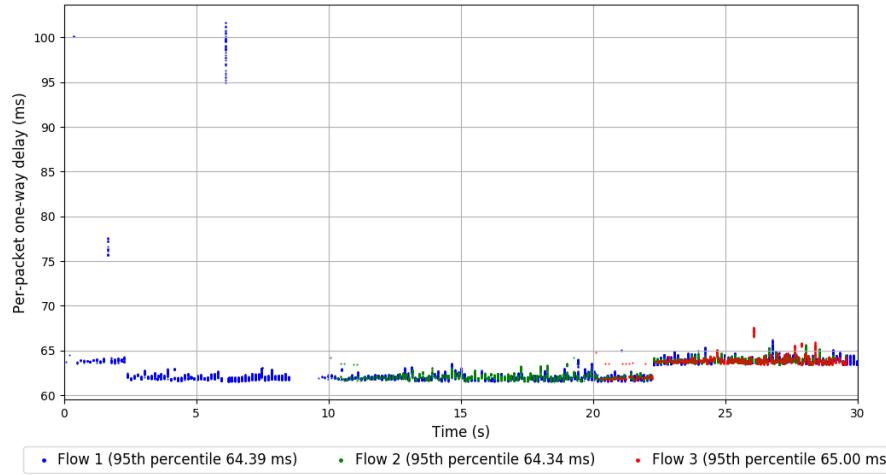
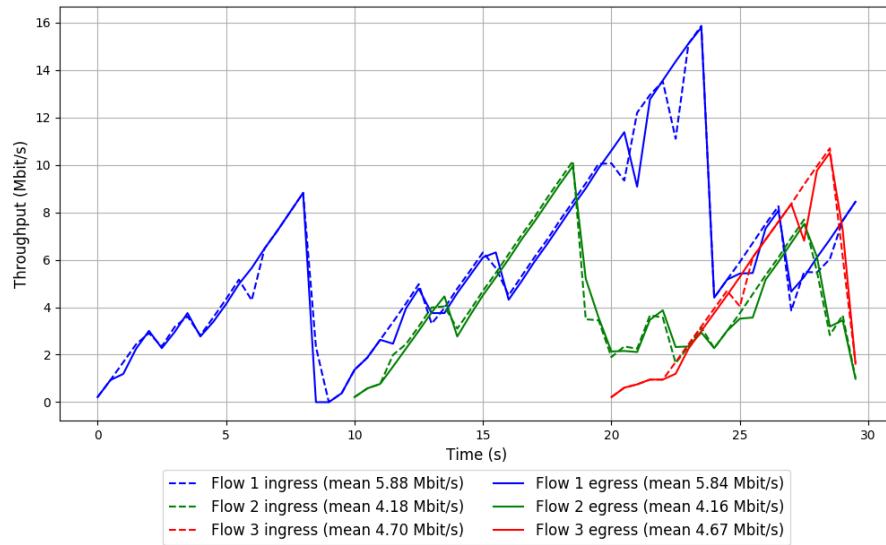
Run 10: Statistics of LEDBAT

Start at: 2018-02-01 06:47:55

End at: 2018-02-01 06:48:25

```
# Below is generated by plot.py at 2018-02-01 08:53:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 64.444 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 64.388 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 64.341 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 65.004 ms
Loss rate: 1.85%
```

Run 10: Report of LEDBAT — Data Link

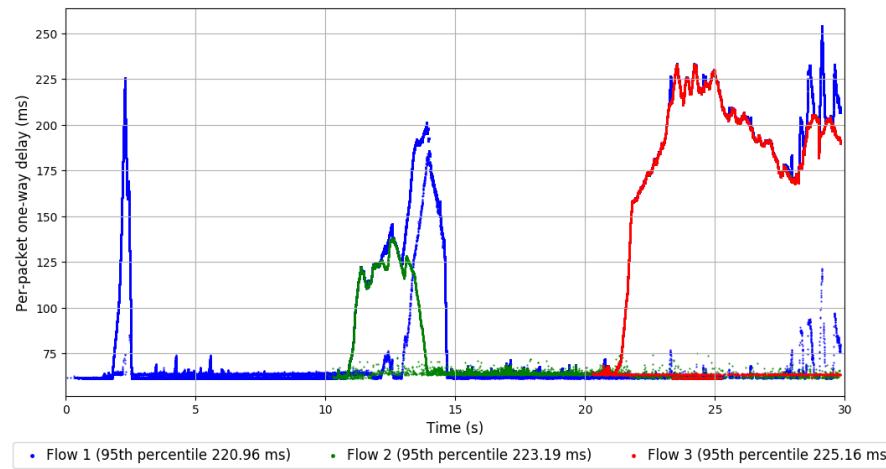
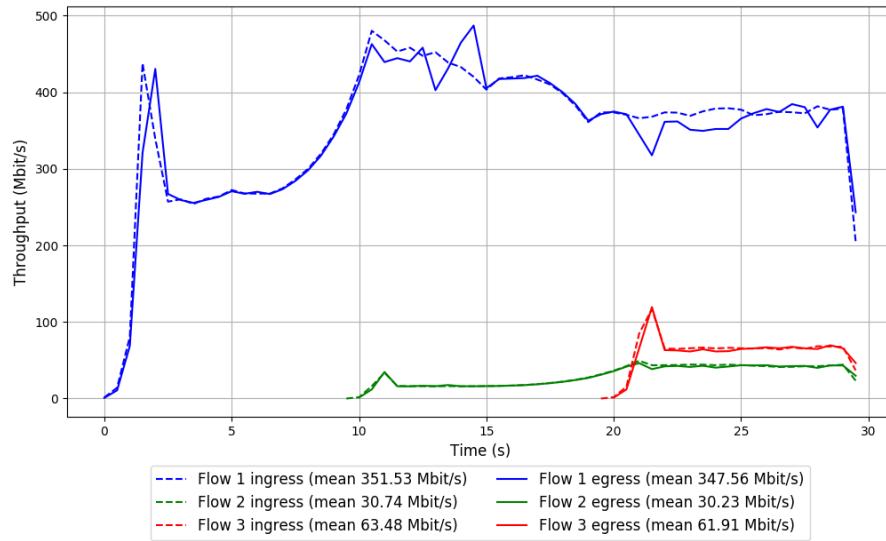


```
Run 1: Statistics of PCC

Start at: 2018-02-01 04:17:25
End at: 2018-02-01 04:17:55

# Below is generated by plot.py at 2018-02-01 08:58:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.09 Mbit/s
95th percentile per-packet one-way delay: 221.561 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 347.56 Mbit/s
95th percentile per-packet one-way delay: 220.963 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 223.191 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 61.91 Mbit/s
95th percentile per-packet one-way delay: 225.157 ms
Loss rate: 2.46%
```

Run 1: Report of PCC — Data Link



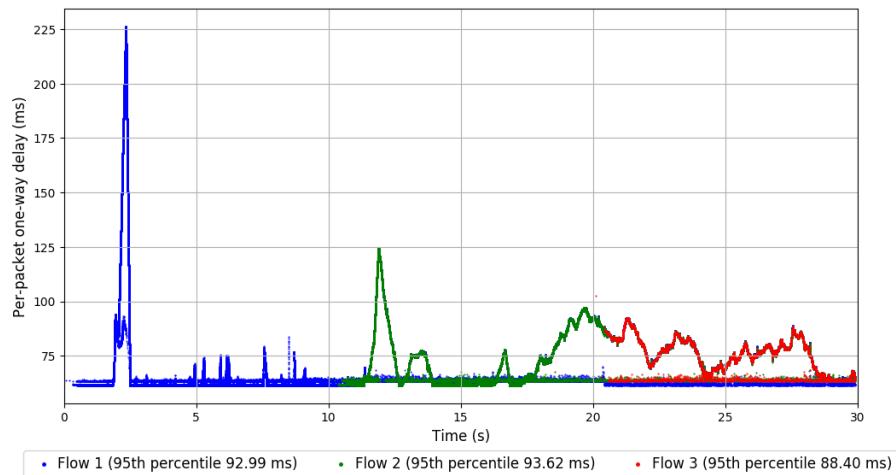
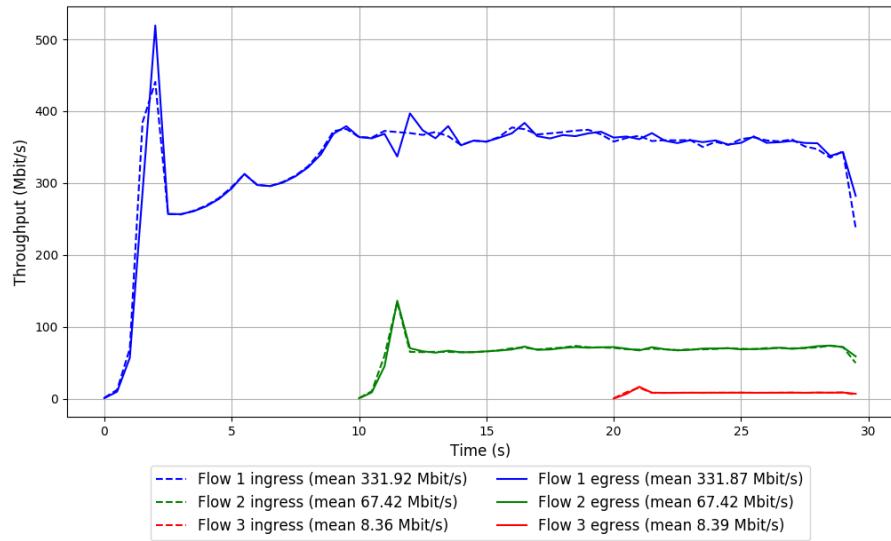
Run 2: Statistics of PCC

Start at: 2018-02-01 04:33:47

End at: 2018-02-01 04:34:17

```
# Below is generated by plot.py at 2018-02-01 08:58:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.42 Mbit/s
95th percentile per-packet one-way delay: 92.983 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 331.87 Mbit/s
95th percentile per-packet one-way delay: 92.993 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 67.42 Mbit/s
95th percentile per-packet one-way delay: 93.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 88.403 ms
Loss rate: 0.00%
```

Run 2: Report of PCC — Data Link



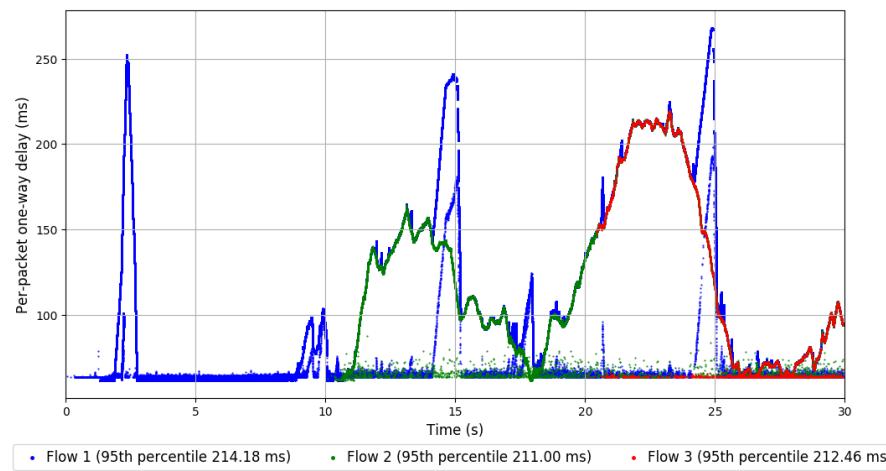
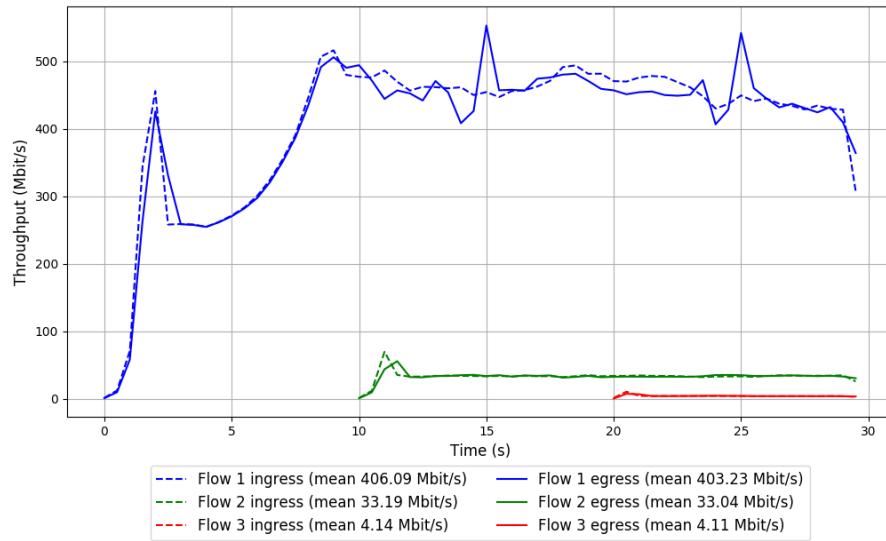
Run 3: Statistics of PCC

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

End at: 2018-02-01 04:50:26

```
# Below is generated by plot.py at 2018-02-01 08:59:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.53 Mbit/s
95th percentile per-packet one-way delay: 213.829 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 403.23 Mbit/s
95th percentile per-packet one-way delay: 214.178 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 210.996 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 212.459 ms
Loss rate: 0.82%
```

Run 3: Report of PCC — Data Link



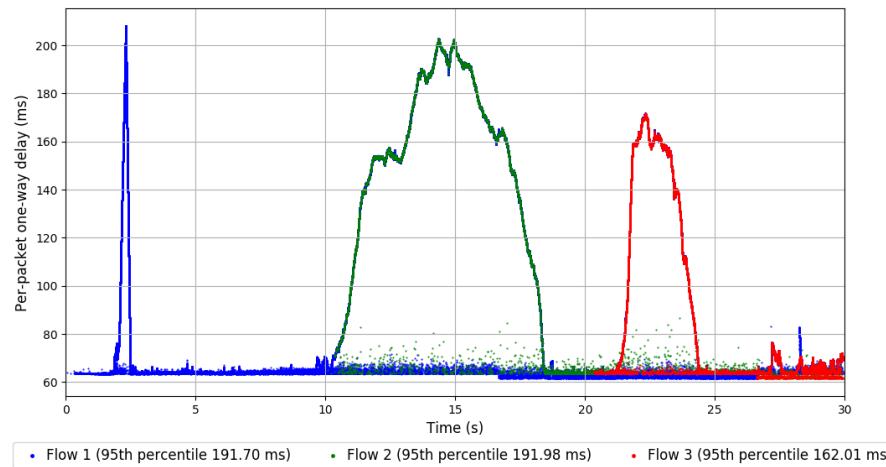
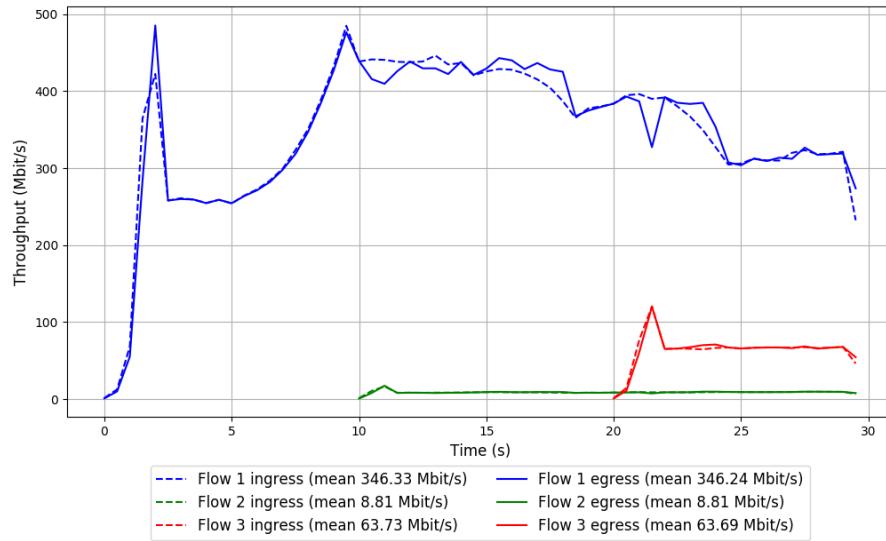
Run 4: Statistics of PCC

Start at: 2018-02-01 05:06:10

End at: 2018-02-01 05:06:40

```
# Below is generated by plot.py at 2018-02-01 08:59:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.08 Mbit/s
95th percentile per-packet one-way delay: 191.448 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 346.24 Mbit/s
95th percentile per-packet one-way delay: 191.698 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 191.983 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 63.69 Mbit/s
95th percentile per-packet one-way delay: 162.011 ms
Loss rate: 0.05%
```

Run 4: Report of PCC — Data Link



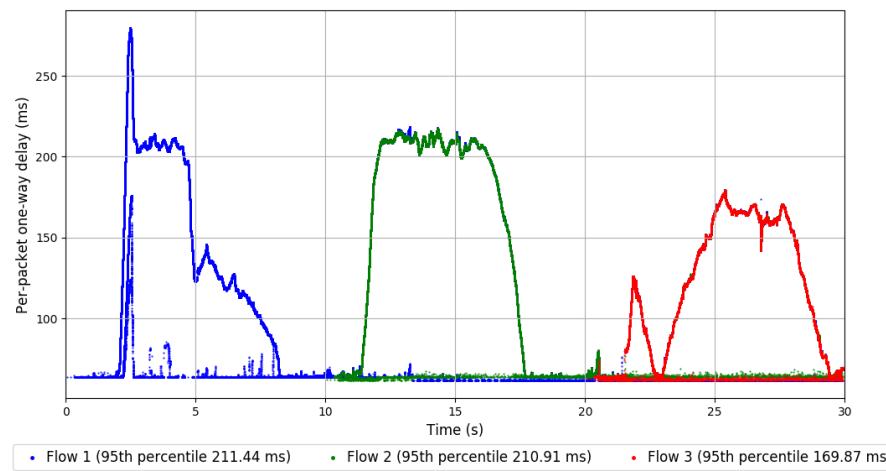
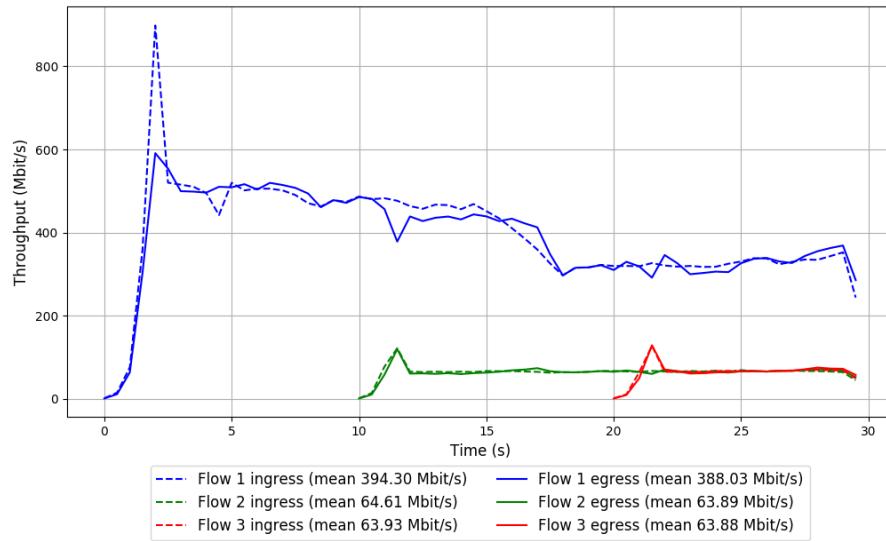
Run 5: Statistics of PCC

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

End at: 2018-02-01 05:23:04

```
# Below is generated by plot.py at 2018-02-01 09:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 451.54 Mbit/s
95th percentile per-packet one-way delay: 211.233 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 388.03 Mbit/s
95th percentile per-packet one-way delay: 211.439 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 63.89 Mbit/s
95th percentile per-packet one-way delay: 210.909 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 63.88 Mbit/s
95th percentile per-packet one-way delay: 169.866 ms
Loss rate: 0.03%
```

Run 5: Report of PCC — Data Link



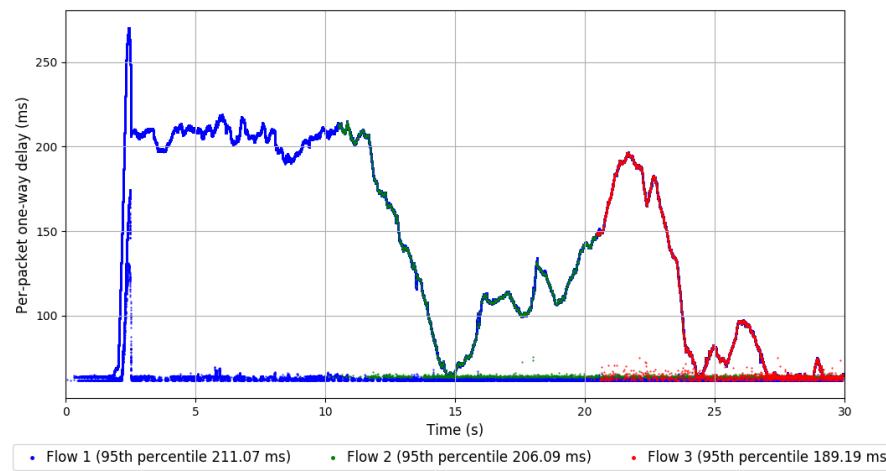
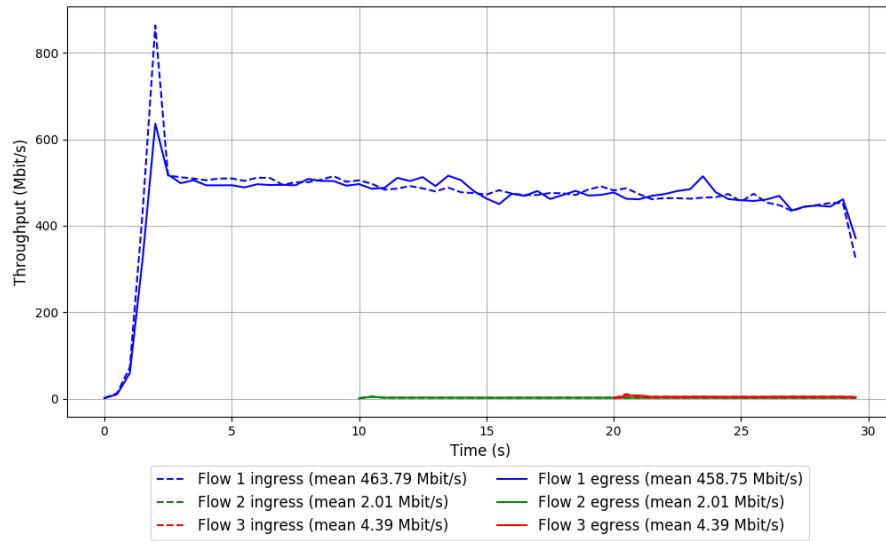
Run 6: Statistics of PCC

Start at: 2018-02-01 05:39:07

End at: 2018-02-01 05:39:37

```
# Below is generated by plot.py at 2018-02-01 09:01:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.40 Mbit/s
95th percentile per-packet one-way delay: 211.060 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 458.75 Mbit/s
95th percentile per-packet one-way delay: 211.075 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 206.095 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 189.193 ms
Loss rate: 0.00%
```

Run 6: Report of PCC — Data Link



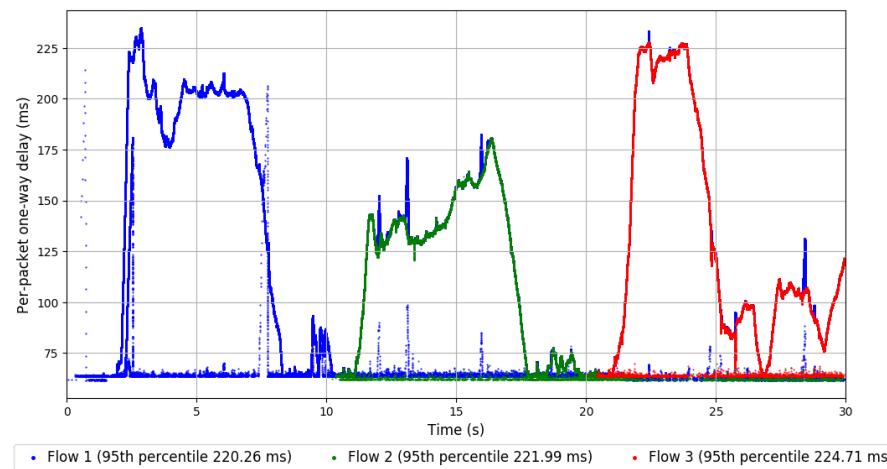
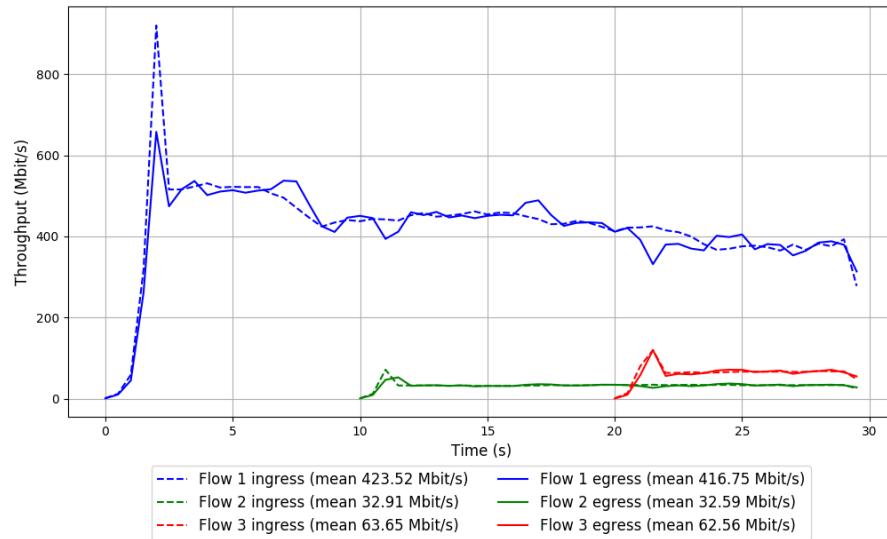
Run 7: Statistics of PCC

Start at: 2018-02-01 05:55:56

End at: 2018-02-01 05:56:26

```
# Below is generated by plot.py at 2018-02-01 09:02:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 458.97 Mbit/s
95th percentile per-packet one-way delay: 220.869 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 416.75 Mbit/s
95th percentile per-packet one-way delay: 220.265 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 221.990 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 62.56 Mbit/s
95th percentile per-packet one-way delay: 224.713 ms
Loss rate: 1.81%
```

Run 7: Report of PCC — Data Link



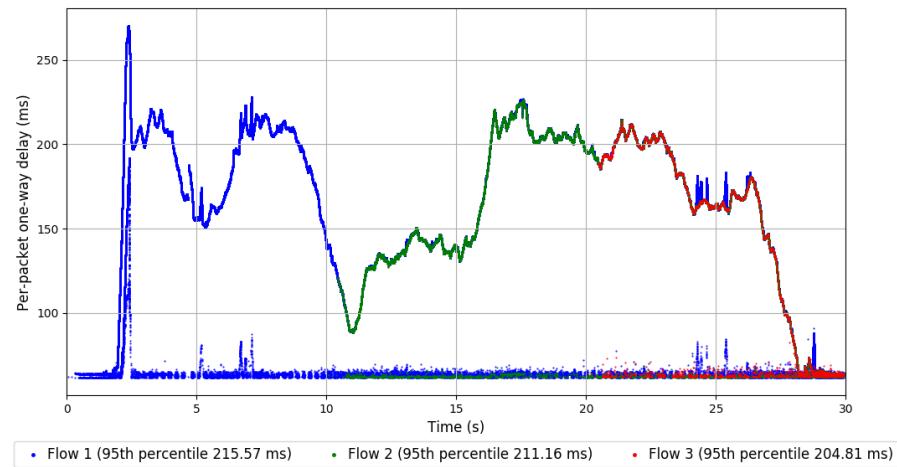
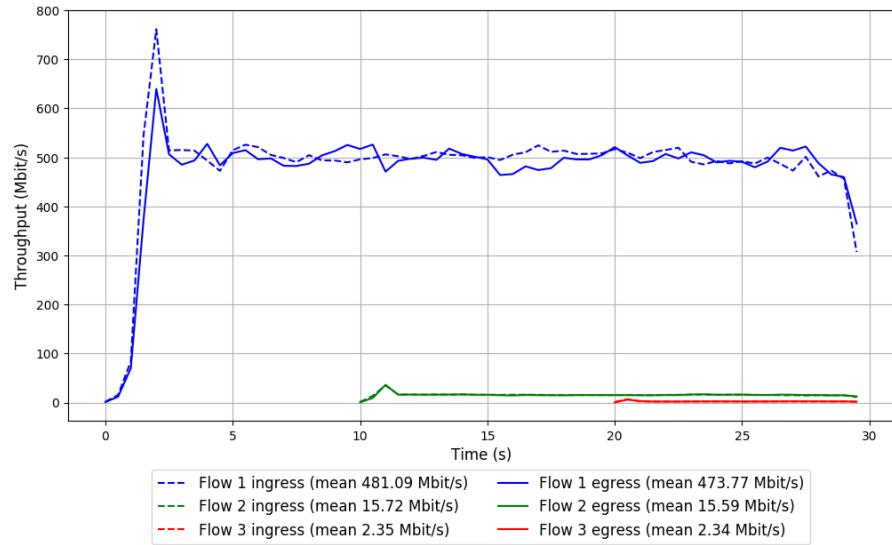
Run 8: Statistics of PCC

Start at: 2018-02-01 06:12:51

End at: 2018-02-01 06:13:21

```
# Below is generated by plot.py at 2018-02-01 09:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.90 Mbit/s
95th percentile per-packet one-way delay: 215.514 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 473.77 Mbit/s
95th percentile per-packet one-way delay: 215.573 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 211.164 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 204.806 ms
Loss rate: 0.47%
```

Run 8: Report of PCC — Data Link



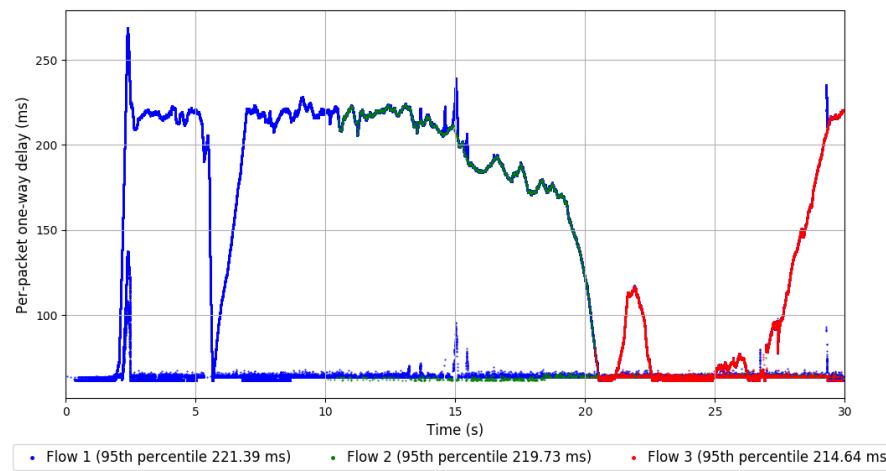
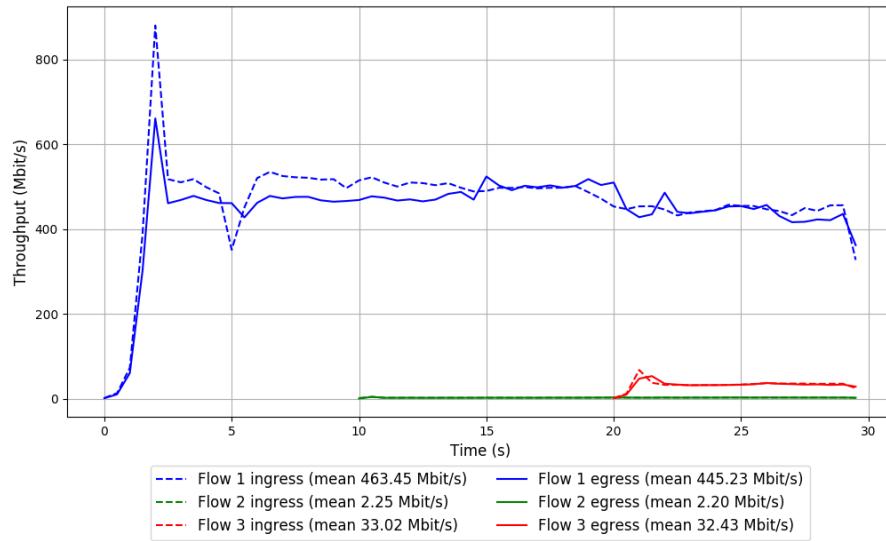
Run 9: Statistics of PCC

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

End at: 2018-02-01 06:29:59

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 457.35 Mbit/s
95th percentile per-packet one-way delay: 221.345 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 445.23 Mbit/s
95th percentile per-packet one-way delay: 221.394 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 219.734 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 214.636 ms
Loss rate: 1.79%
```

Run 9: Report of PCC — Data Link



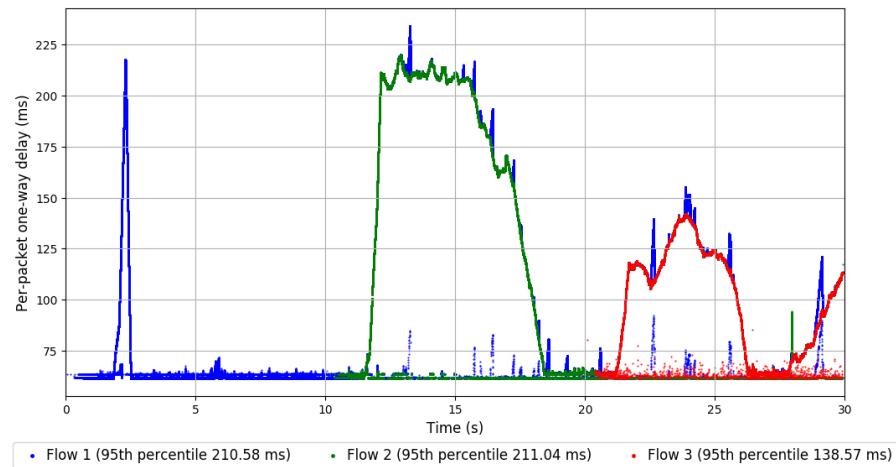
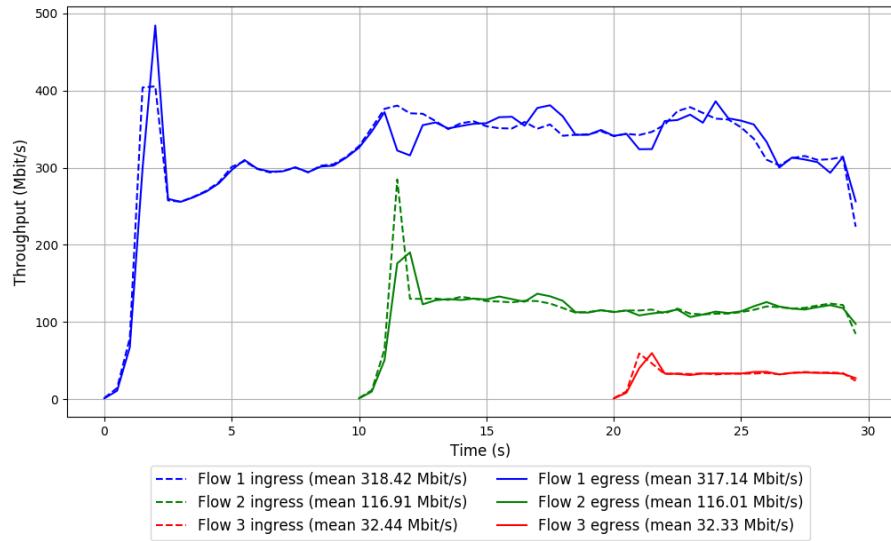
Run 10: Statistics of PCC

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

End at: 2018-02-01 06:46:36

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.85 Mbit/s
95th percentile per-packet one-way delay: 210.629 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 317.14 Mbit/s
95th percentile per-packet one-way delay: 210.580 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 116.01 Mbit/s
95th percentile per-packet one-way delay: 211.042 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 138.569 ms
Loss rate: 0.53%
```

Run 10: Report of PCC — Data Link

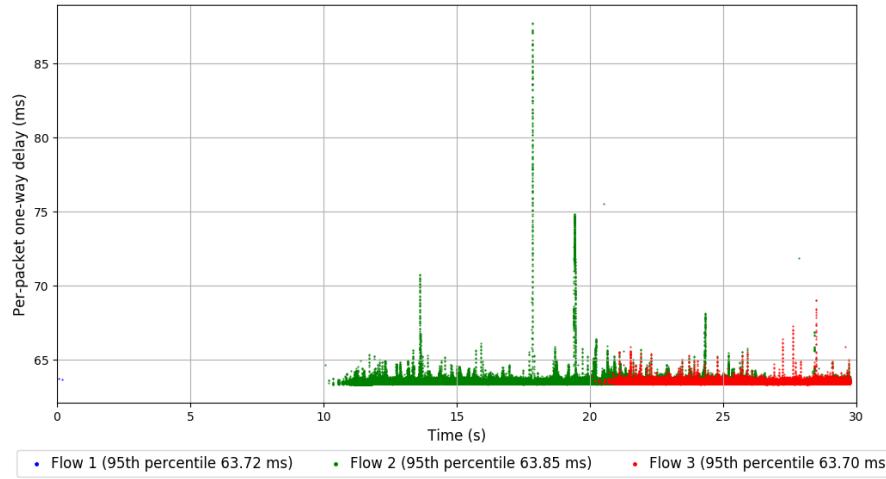
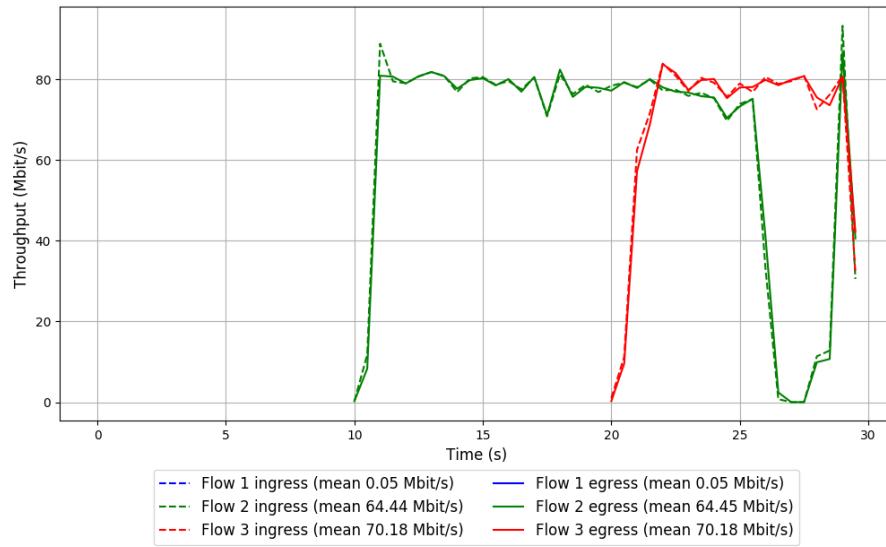


```
Run 1: Statistics of QUIC Cubic

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

# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 63.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.45 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.18 Mbit/s
95th percentile per-packet one-way delay: 63.695 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



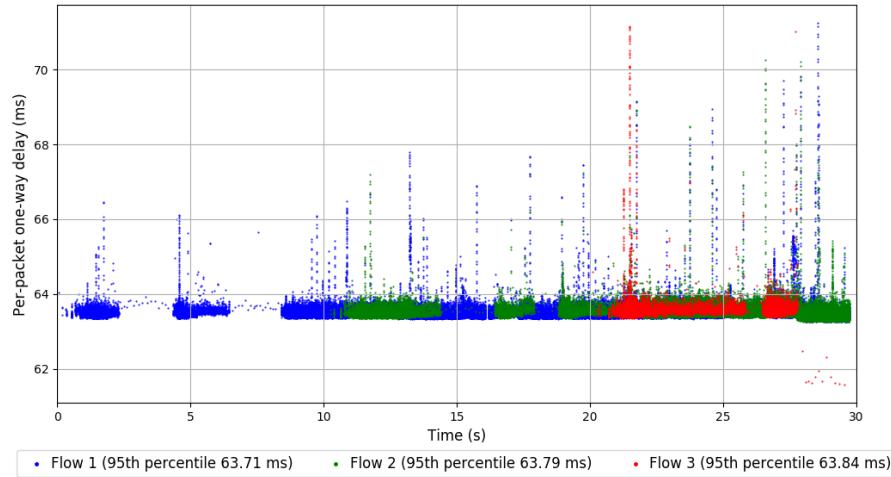
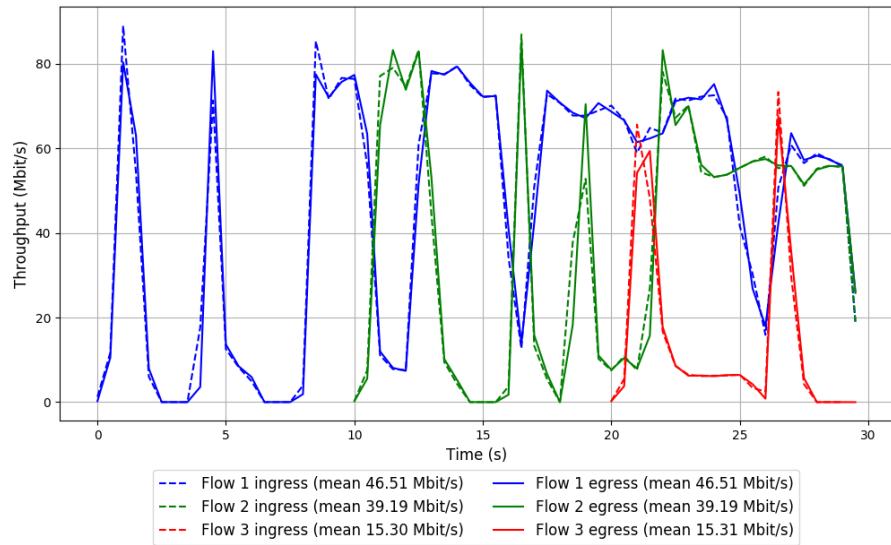
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-01 04:20:39

End at: 2018-02-01 04:21:09

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.51 Mbit/s
95th percentile per-packet one-way delay: 63.714 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 63.788 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



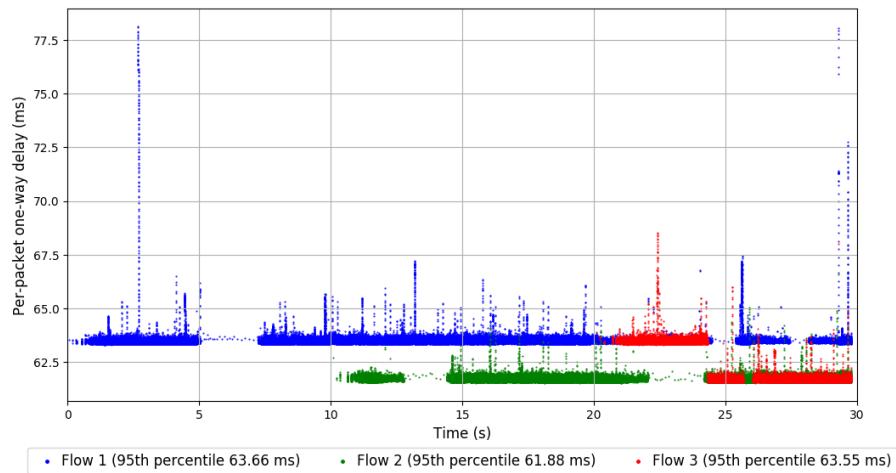
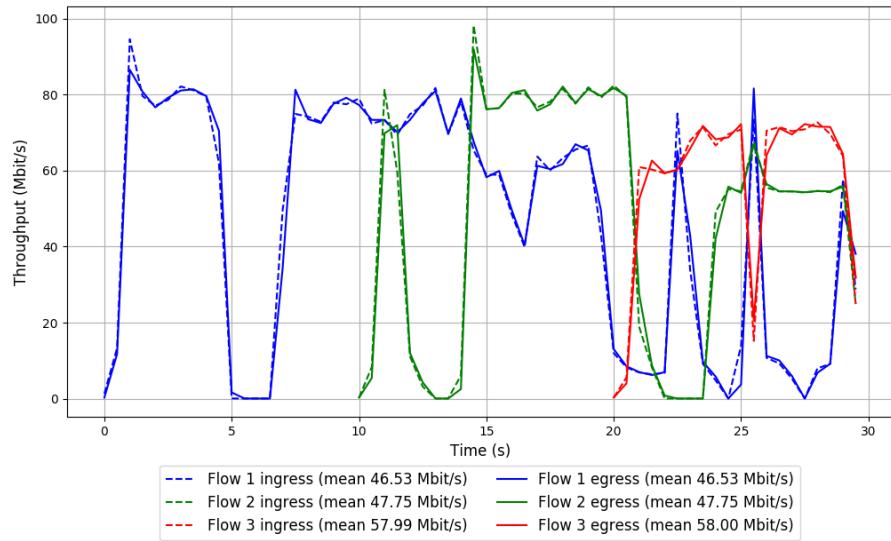
```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2018-02-01 04:36:53
```

```
End at: 2018-02-01 04:37:23
```

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 63.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.53 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.75 Mbit/s
95th percentile per-packet one-way delay: 61.879 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

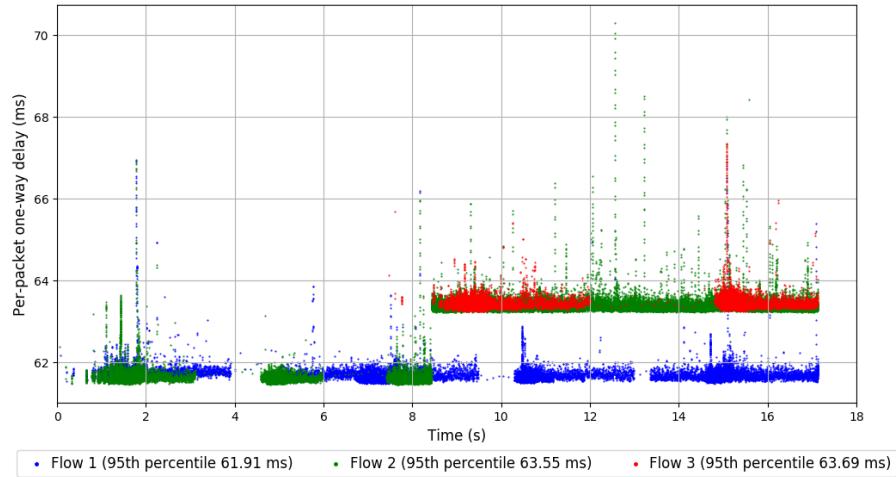
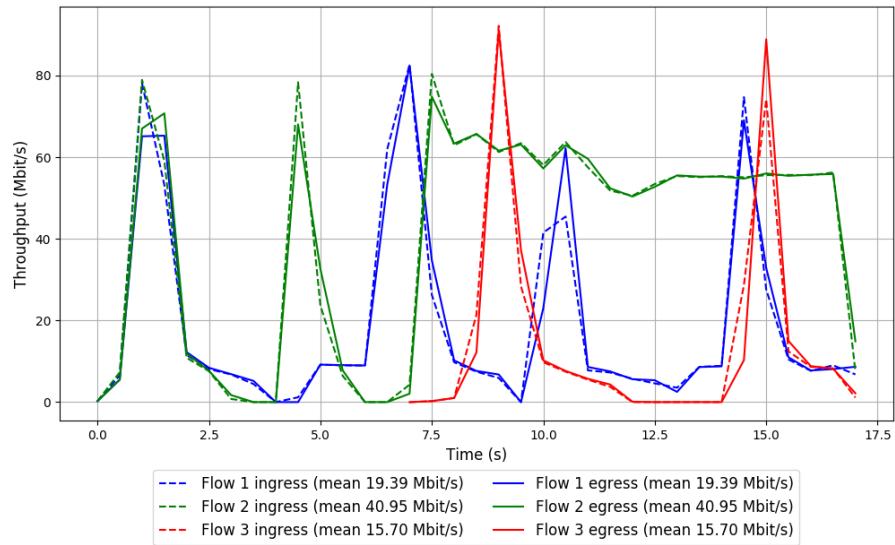


Run 4: Statistics of QUIC Cubic

Start at: 2018-02-01 04:53:06

End at: 2018-02-01 04:53:36

Run 4: Report of QUIC Cubic — Data Link



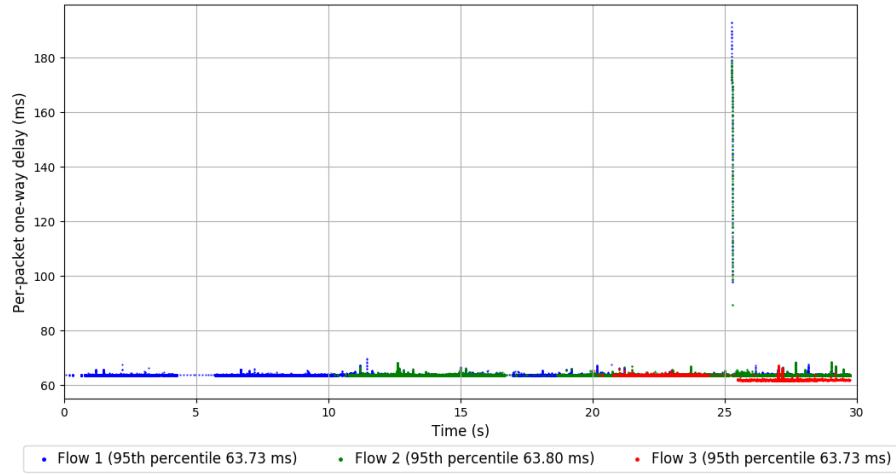
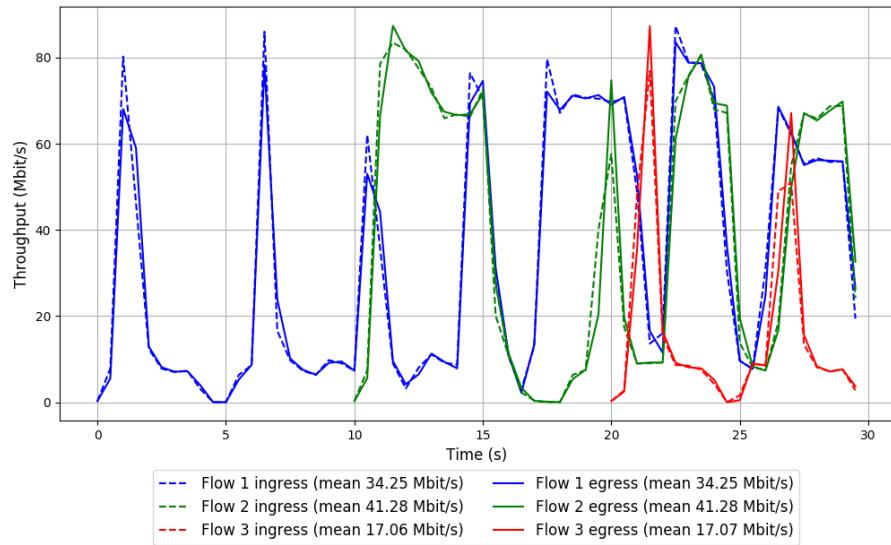
Run 5: Statistics of QUIC Cubic

Start at: 2018-02-01 05:09:22

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

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.13 Mbit/s
95th percentile per-packet one-way delay: 63.760 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 63.730 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 41.28 Mbit/s
95th percentile per-packet one-way delay: 63.797 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 17.07 Mbit/s
95th percentile per-packet one-way delay: 63.732 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link



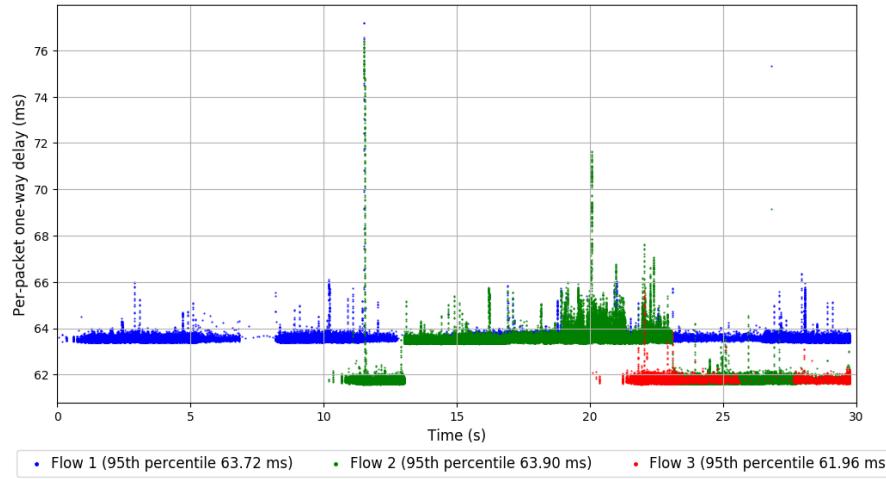
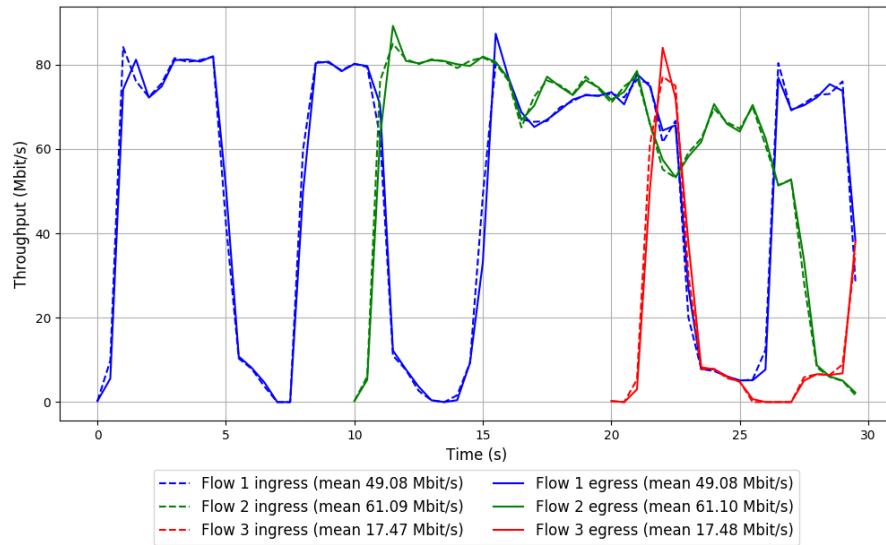
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-01 05:25:44

End at: 2018-02-01 05:26:14

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 63.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.10 Mbit/s
95th percentile per-packet one-way delay: 63.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.48 Mbit/s
95th percentile per-packet one-way delay: 61.960 ms
Loss rate: 0.01%
```

Run 6: Report of QUIC Cubic — Data Link



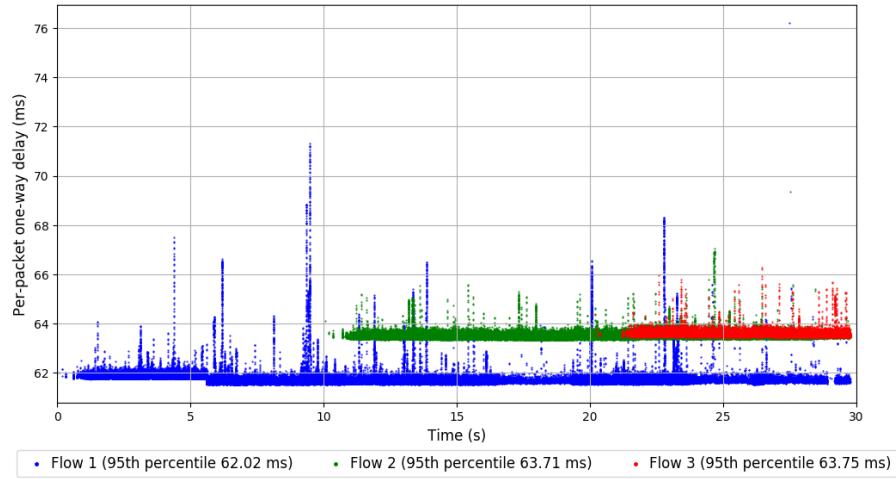
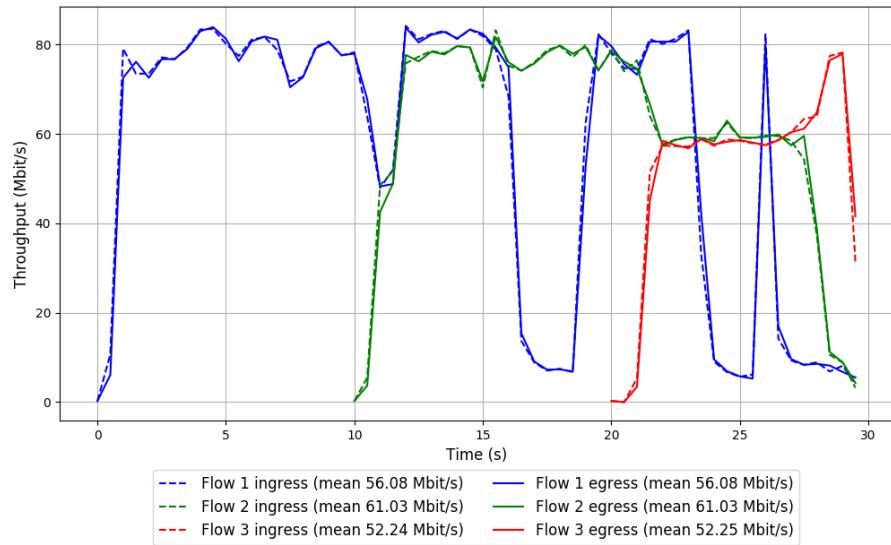
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-01 05:42:21

End at: 2018-02-01 05:42:51

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.58 Mbit/s
95th percentile per-packet one-way delay: 63.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.08 Mbit/s
95th percentile per-packet one-way delay: 62.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.25 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link



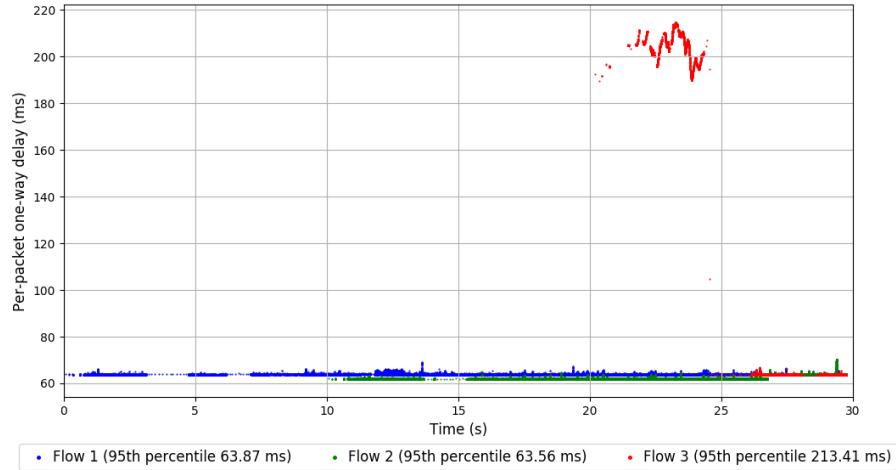
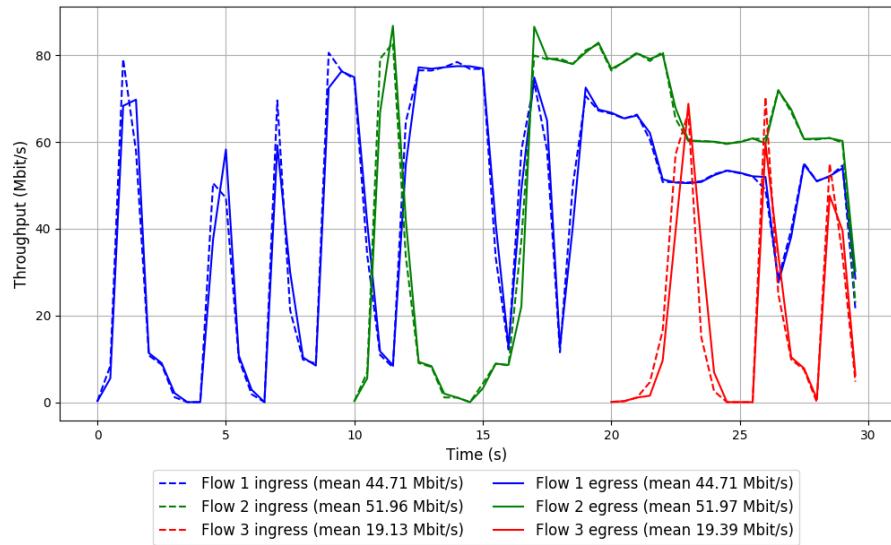
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-01 05:59:10

End at: 2018-02-01 05:59:40

```
# Below is generated by plot.py at 2018-02-01 09:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 63.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 213.406 ms
Loss rate: 0.00%
```

Run 8: Report of QUIC Cubic — Data Link



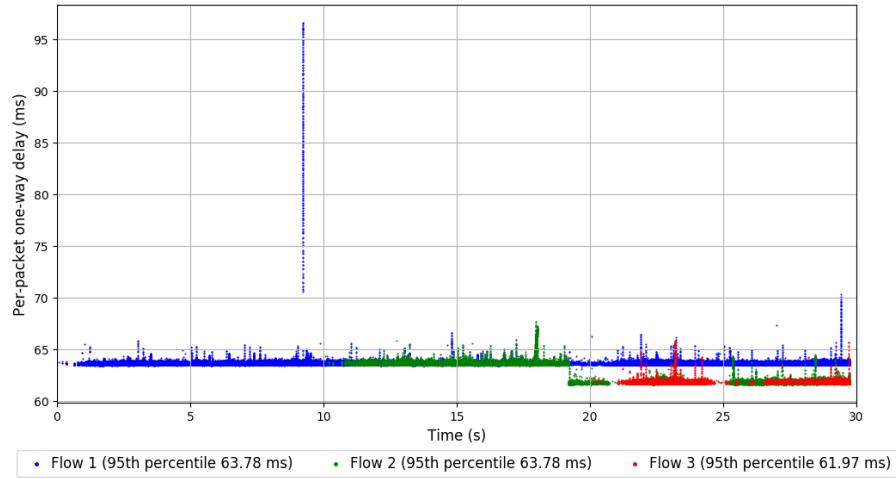
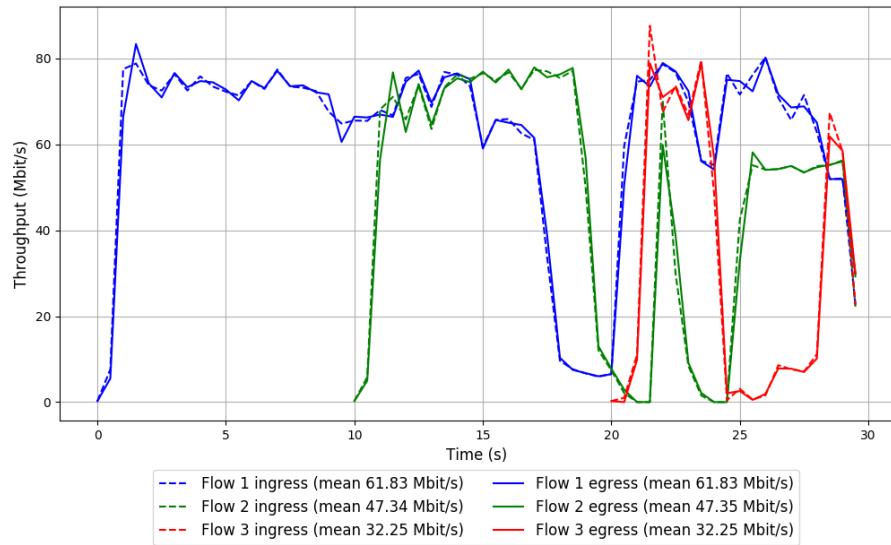
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-01 06:16:08

End at: 2018-02-01 06:16:38

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.73 Mbit/s
95th percentile per-packet one-way delay: 63.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.83 Mbit/s
95th percentile per-packet one-way delay: 63.778 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 61.974 ms
Loss rate: 0.00%
```

Run 9: Report of QUIC Cubic — Data Link



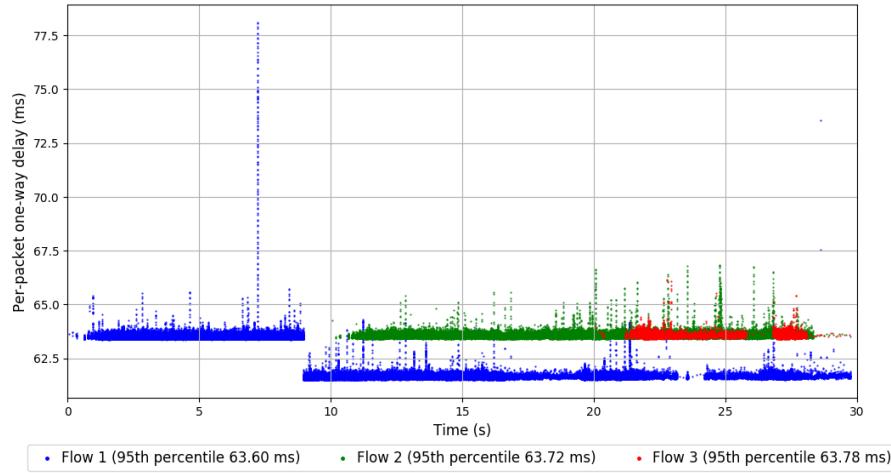
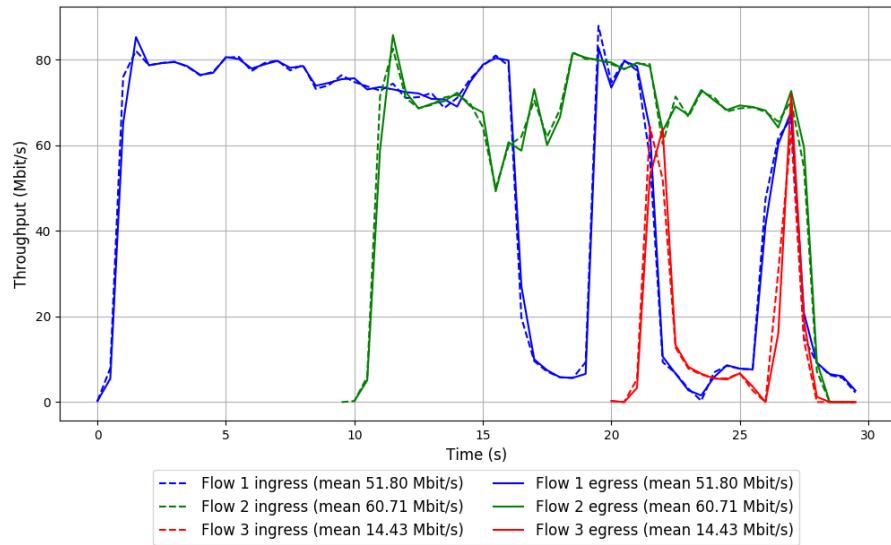
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-01 06:32:48

End at: 2018-02-01 06:33:18

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 63.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.80 Mbit/s
95th percentile per-packet one-way delay: 63.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.43 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

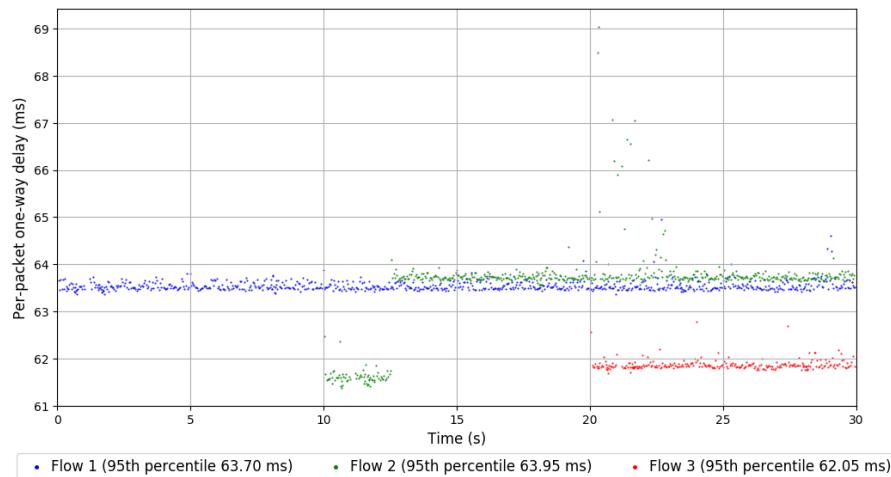
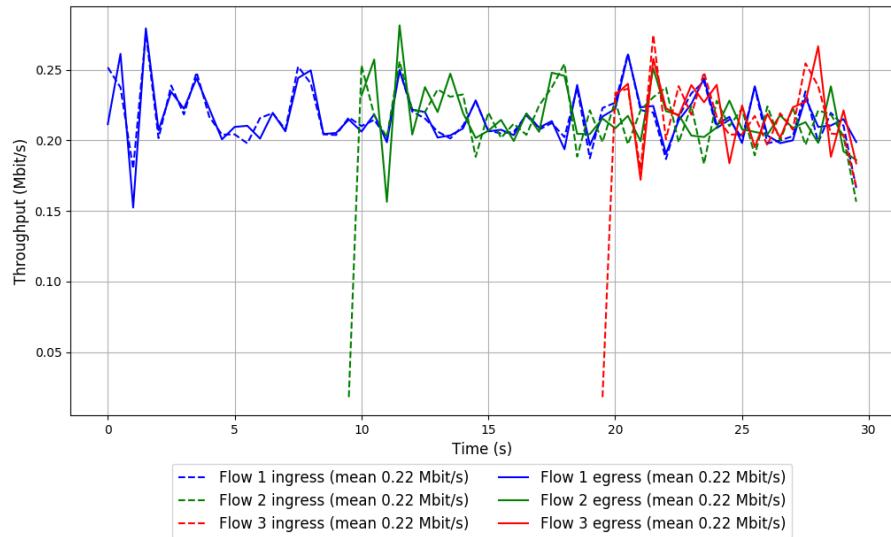


```
Run 1: Statistics of SCReAM

Start at: 2018-02-01 04:10:25
End at: 2018-02-01 04:10:55

# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.952 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.049 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



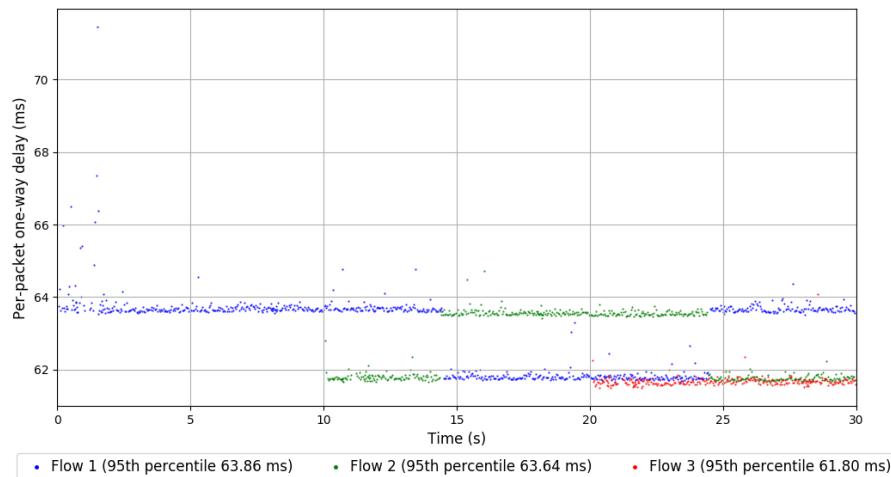
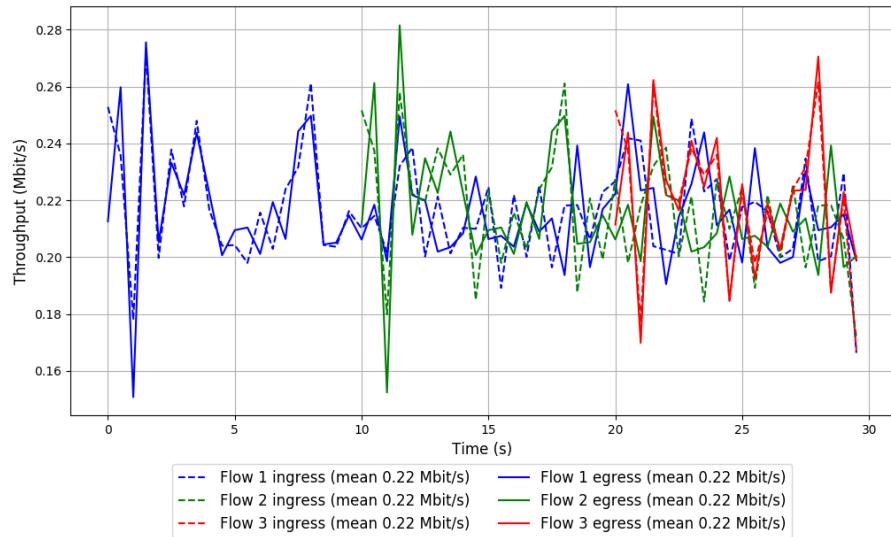
Run 2: Statistics of SCReAM

Start at: 2018-02-01 04:26:53

End at: 2018-02-01 04:27:23

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.861 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.799 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



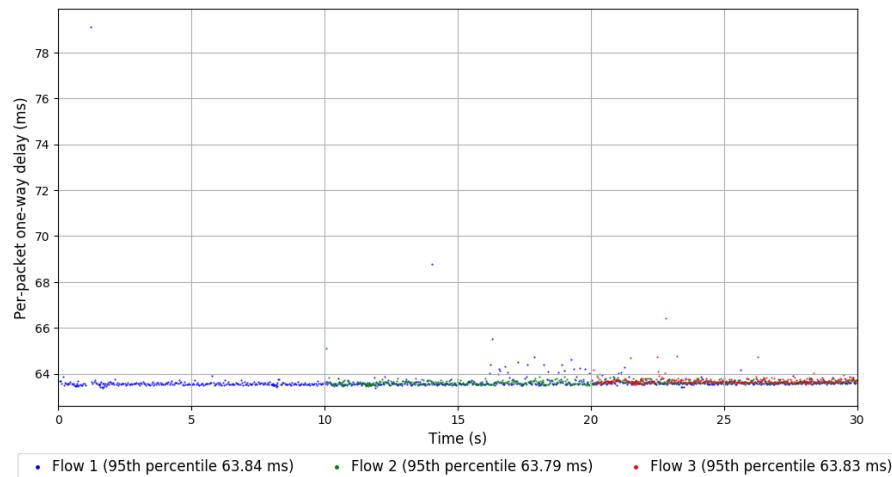
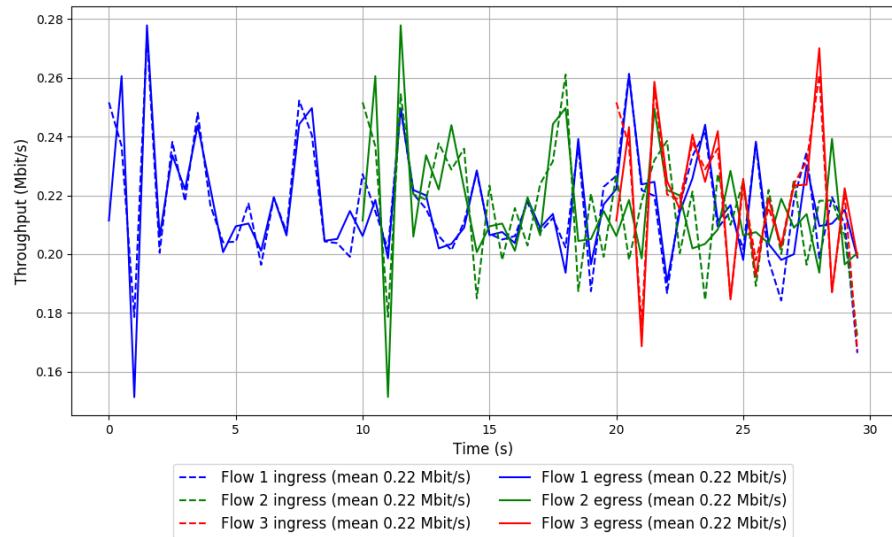
Run 3: Statistics of SCReAM

Start at: 2018-02-01 04:43:07

End at: 2018-02-01 04:43:37

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.827 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



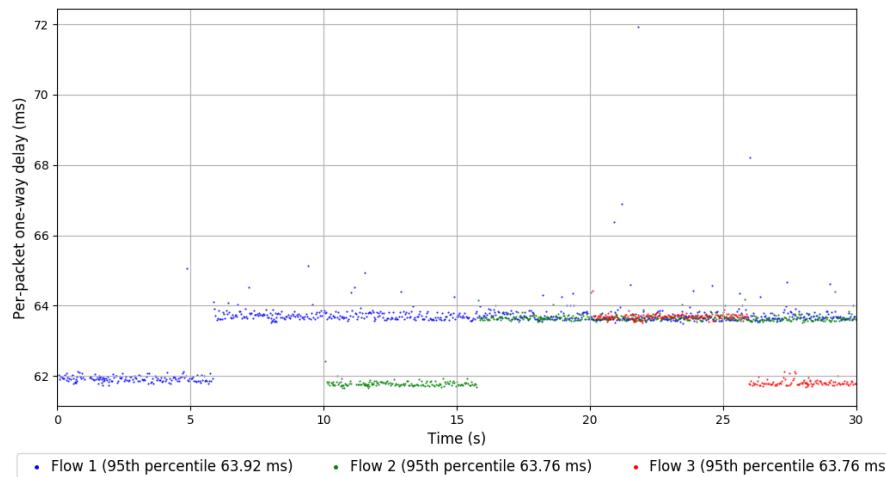
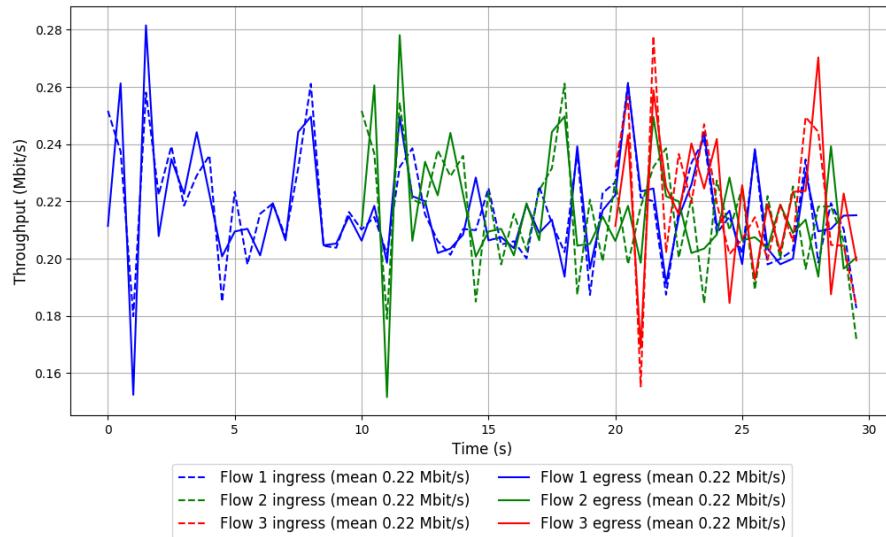
Run 4: Statistics of SCReAM

Start at: 2018-02-01 04:59:21

End at: 2018-02-01 04:59:51

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.924 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.761 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.761 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



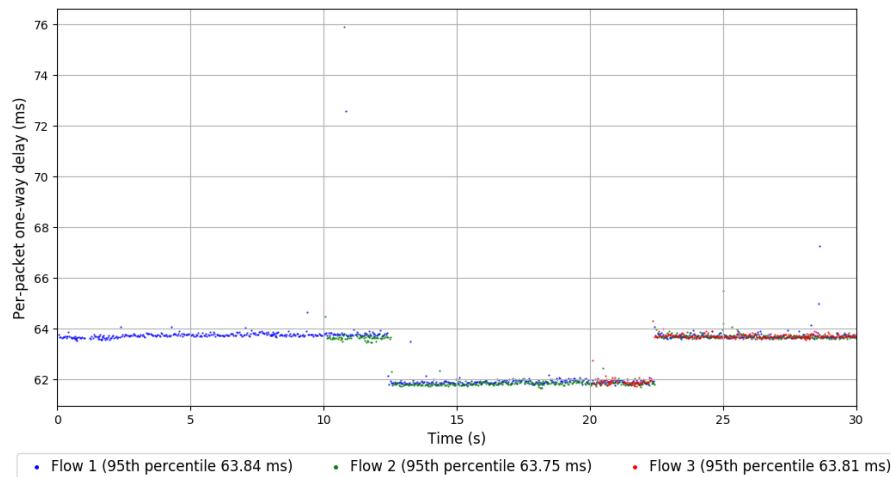
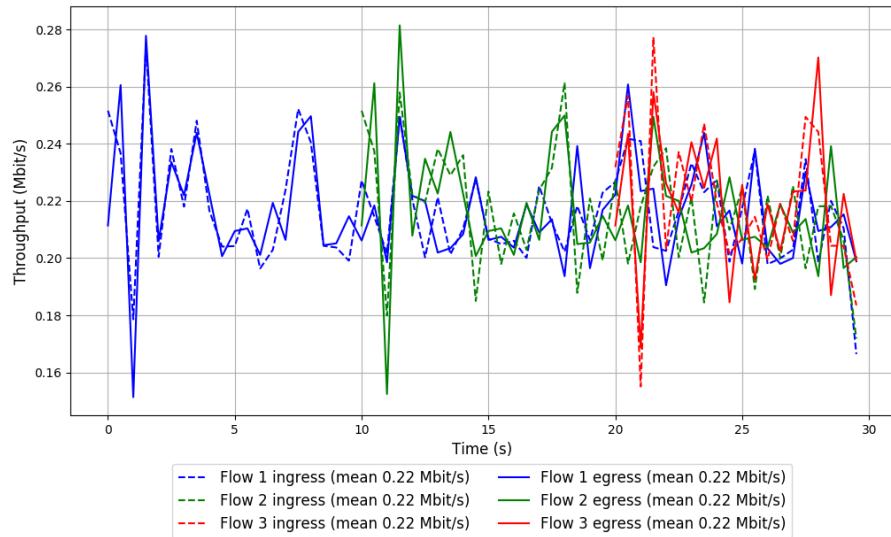
Run 5: Statistics of SCReAM

Start at: 2018-02-01 05:15:45

End at: 2018-02-01 05:16:15

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.754 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.815 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



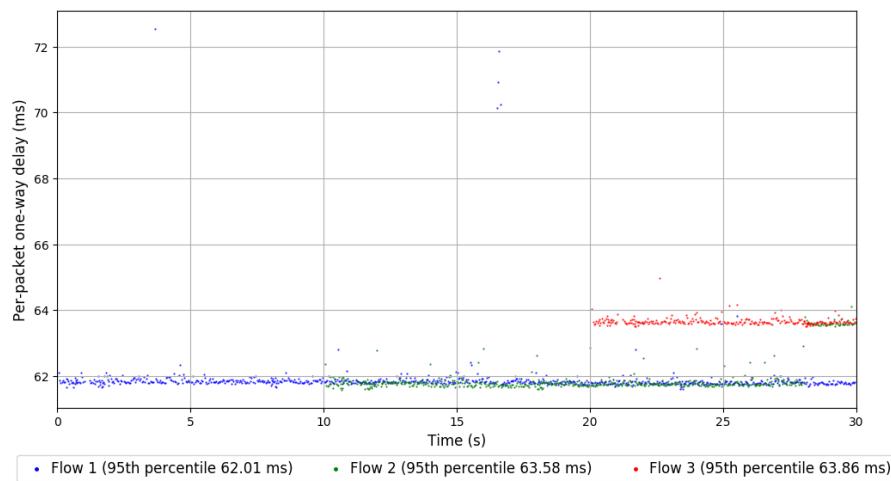
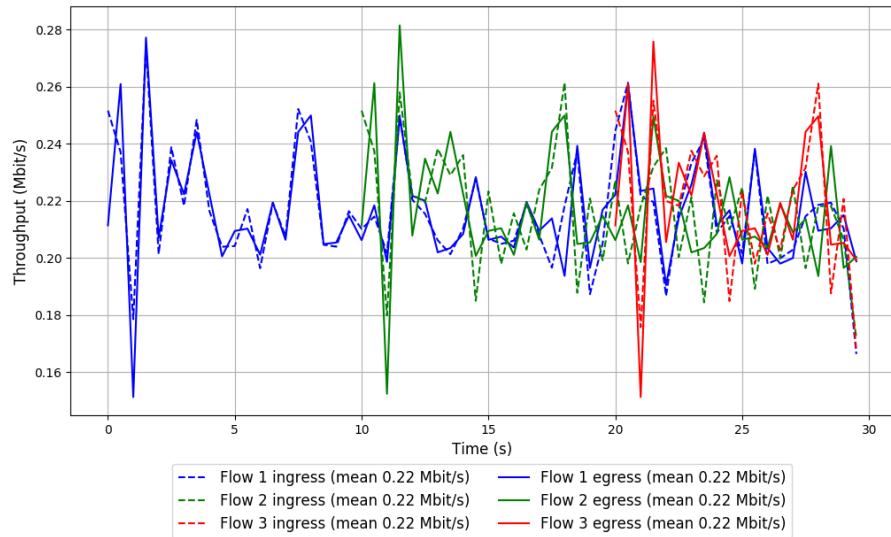
Run 6: Statistics of SCReAM

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

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

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.007 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.857 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

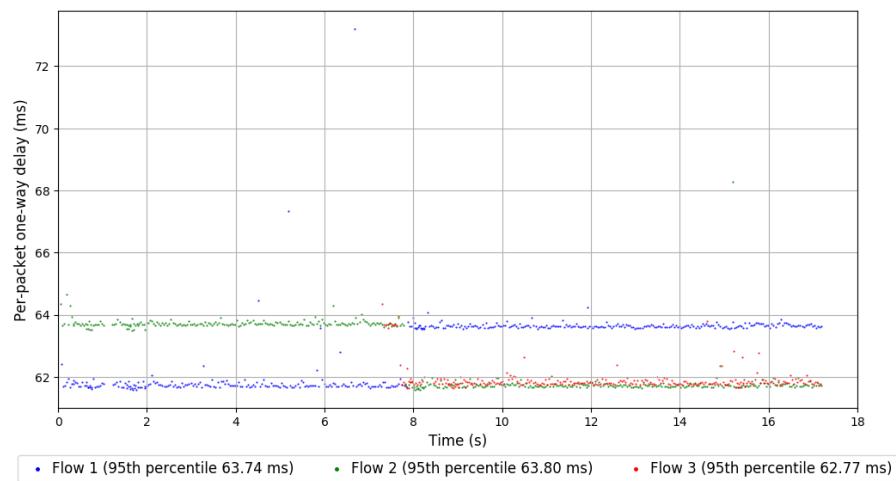
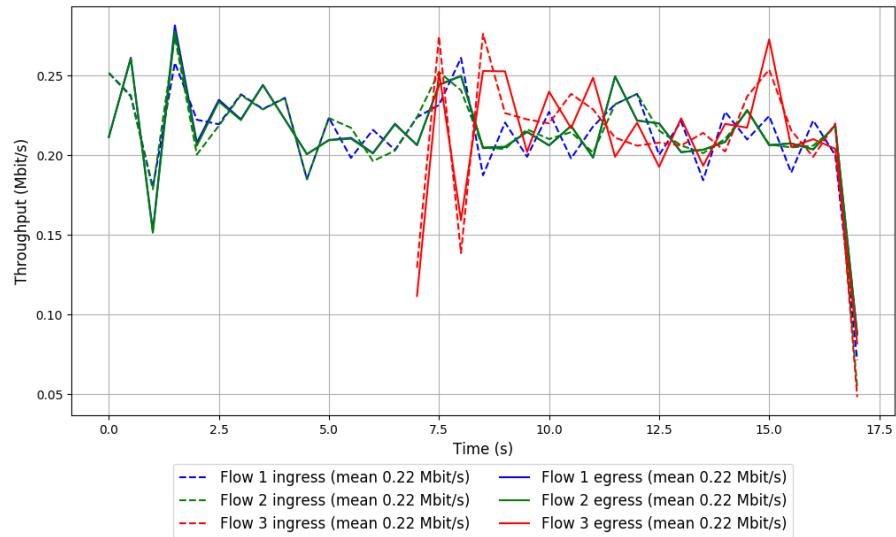


Run 7: Statistics of SCReAM

Start at: 2018-02-01 05:48:57

End at: 2018-02-01 05:49:27

Run 7: Report of SCReAM — Data Link



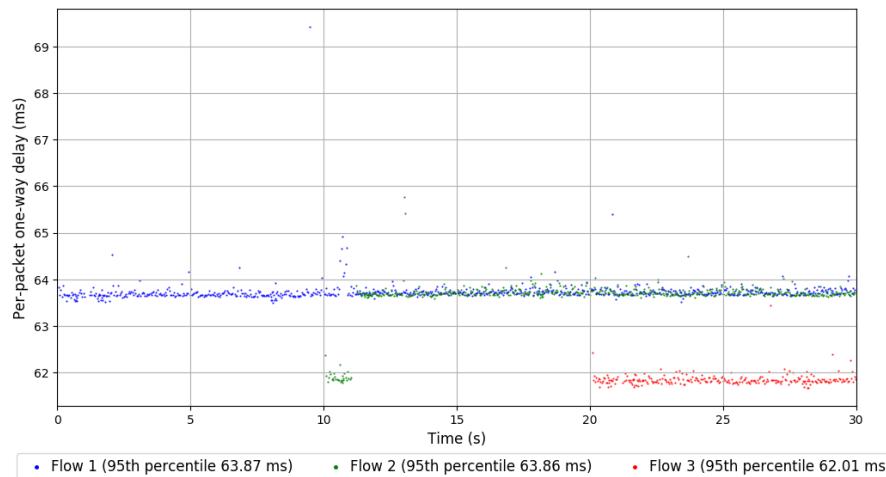
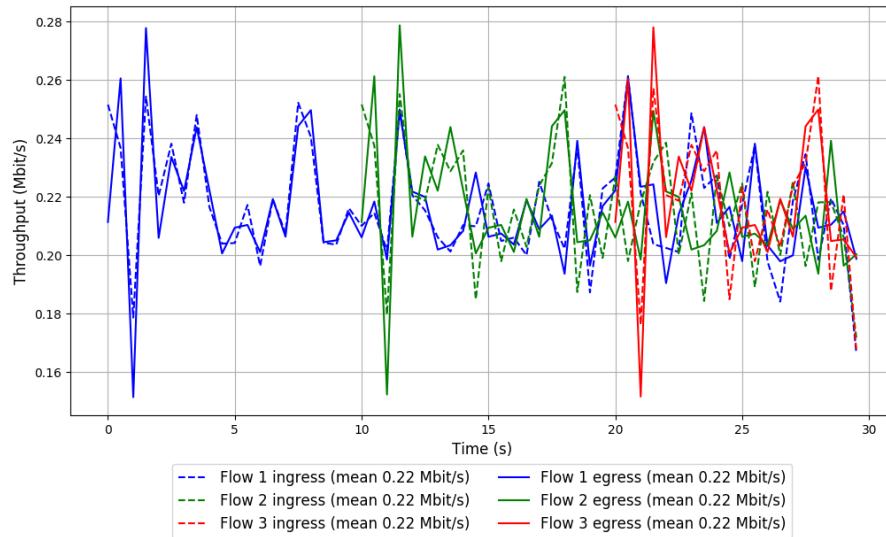
Run 8: Statistics of SCReAM

Start at: 2018-02-01 06:05:46

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

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.871 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.857 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.007 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



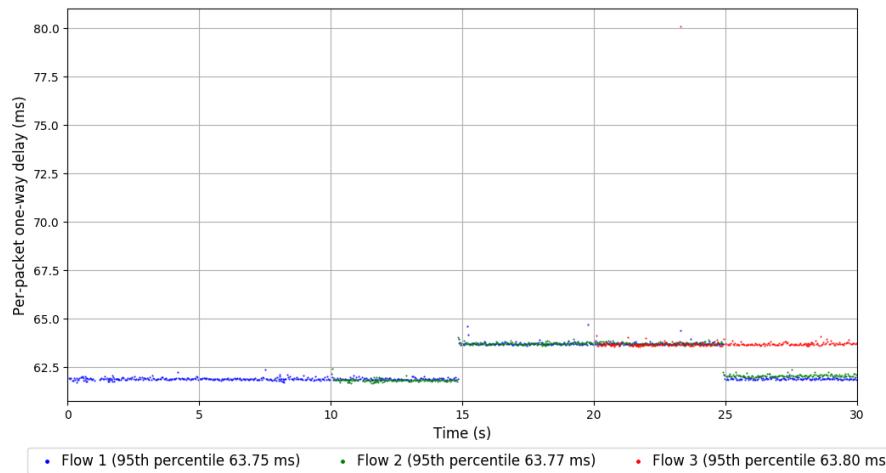
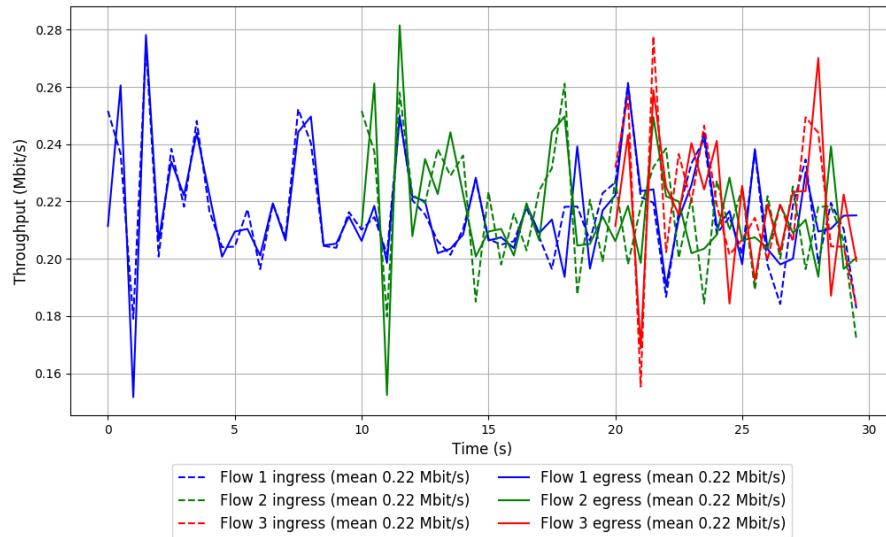
Run 9: Statistics of SCReAM

Start at: 2018-02-01 06:22:32

End at: 2018-02-01 06:23:02

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.747 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.771 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.804 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



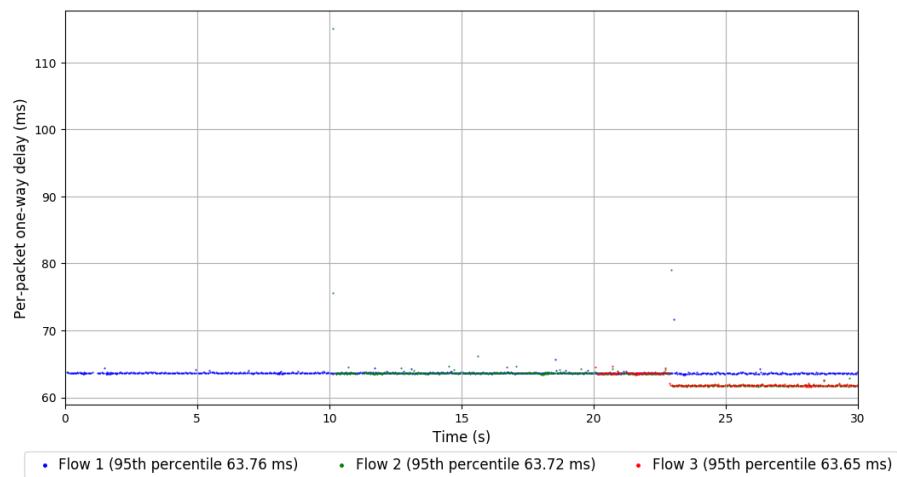
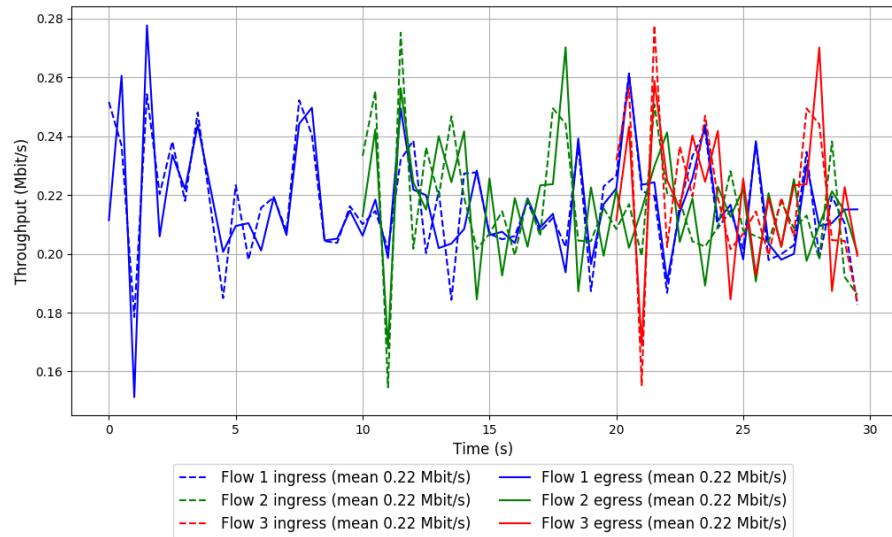
Run 10: Statistics of SCReAM

Start at: 2018-02-01 06:39:14

End at: 2018-02-01 06:39:44

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.649 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

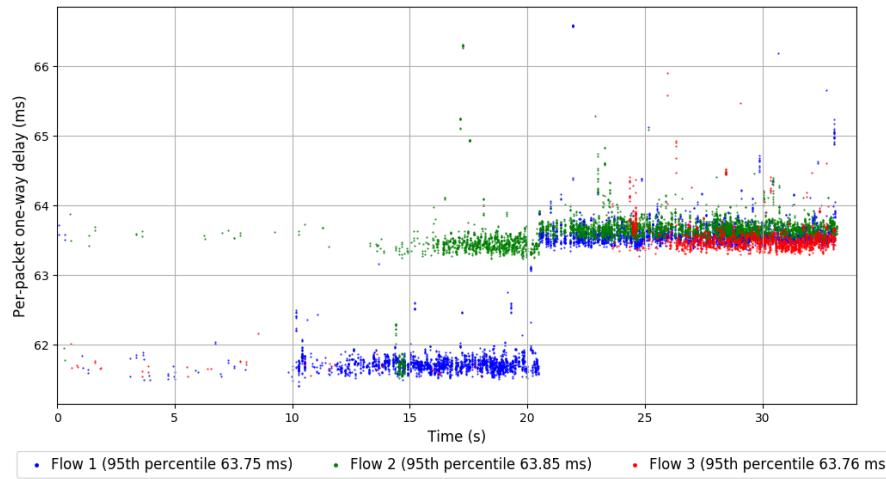
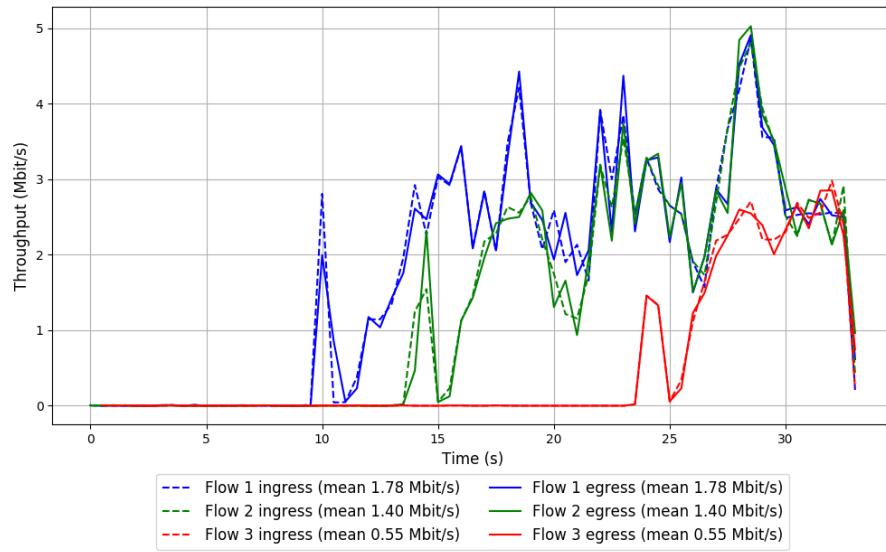


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-01 04:04:50
End at: 2018-02-01 04:05:20

# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 63.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 63.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

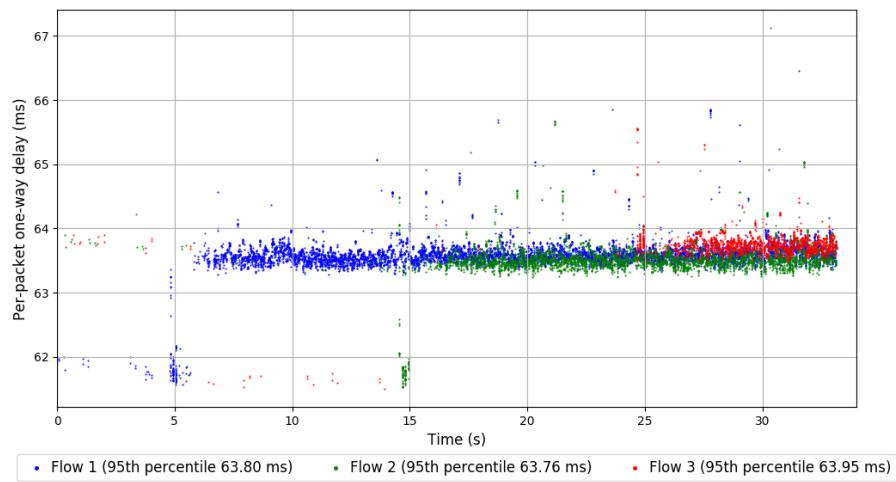
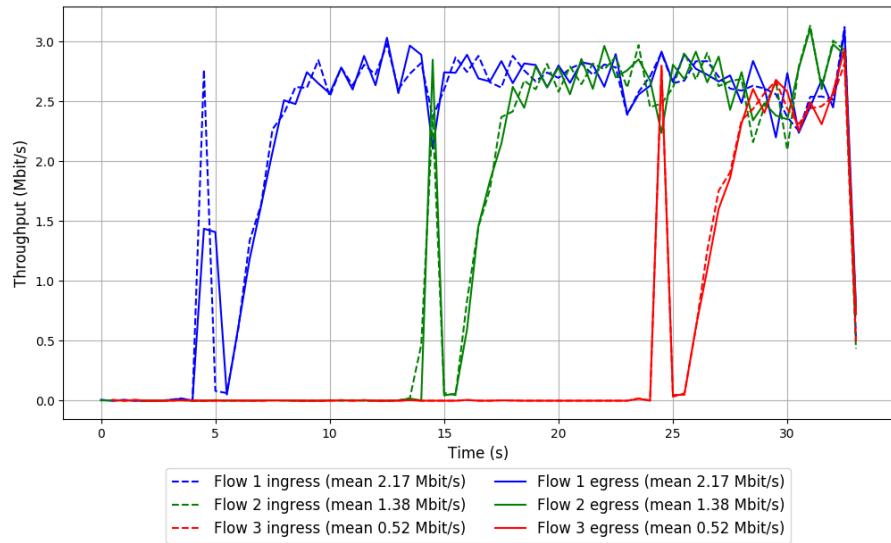


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-01 04:21:25
End at: 2018-02-01 04:21:55

# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 63.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 63.805 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.758 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 63.950 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

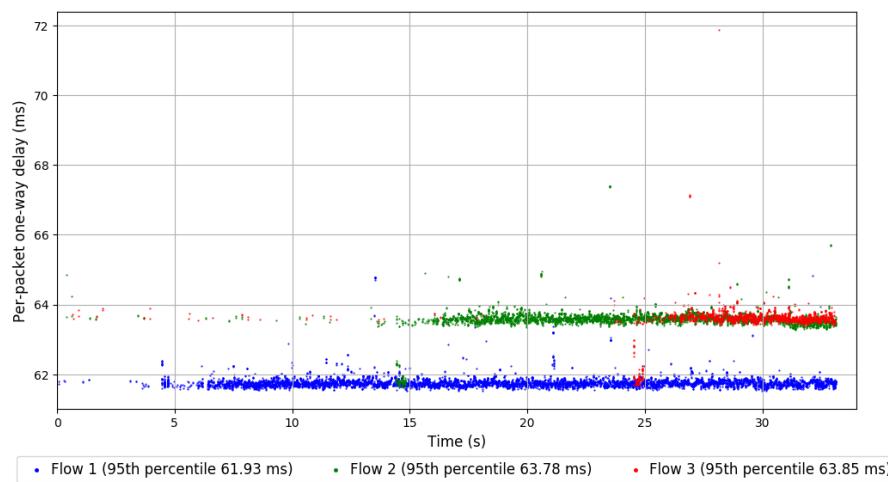
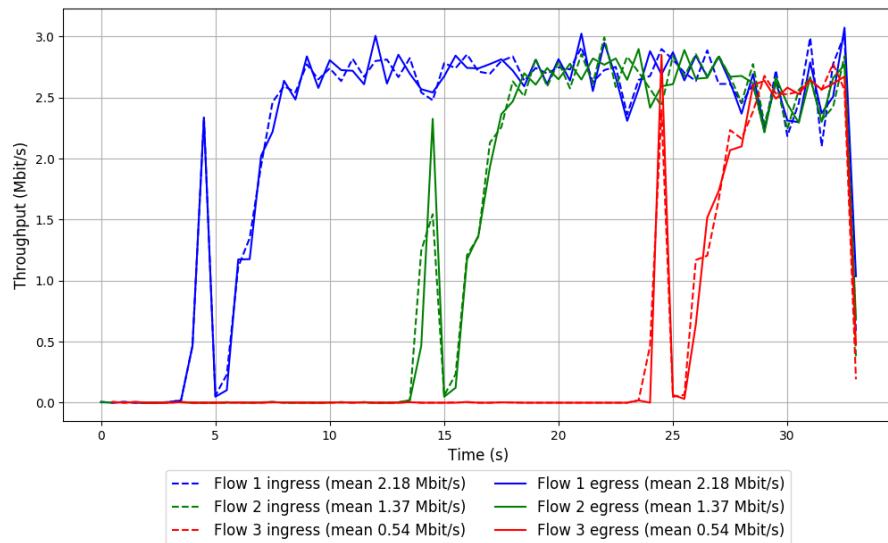


```
Run 3: Statistics of WebRTC media

Start at: 2018-02-01 04:37:39
End at: 2018-02-01 04:38:09

# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 63.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 61.929 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 63.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 63.854 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



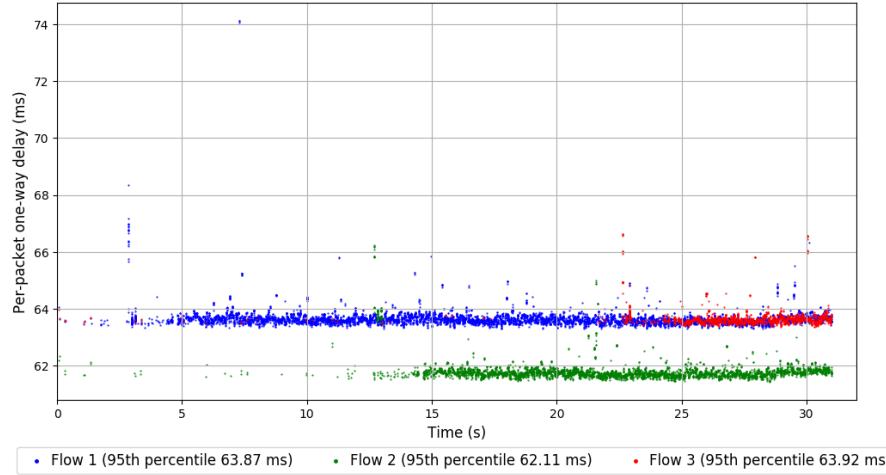
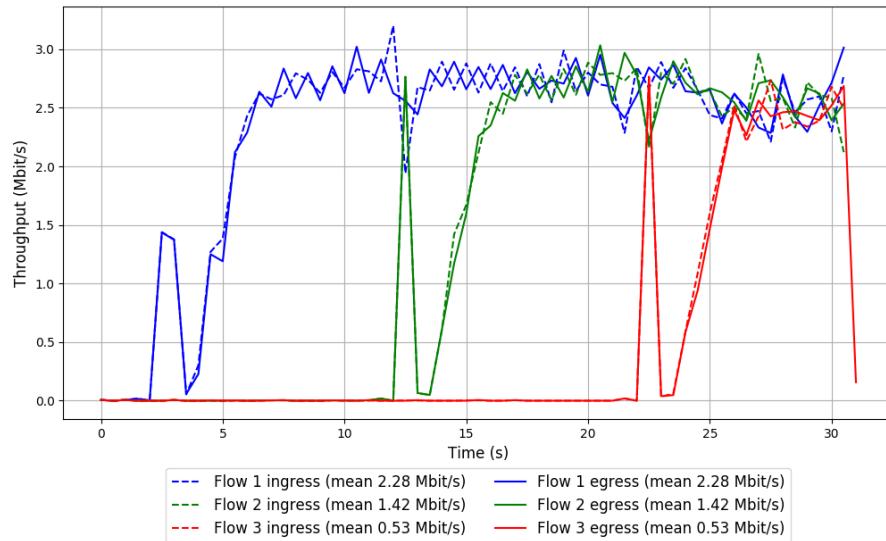
Run 4: Statistics of WebRTC media

Start at: 2018-02-01 04:53:49

End at: 2018-02-01 04:54:19

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 63.870 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 62.107 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 63.920 ms
Loss rate: 0.01%
```

Run 4: Report of WebRTC media — Data Link

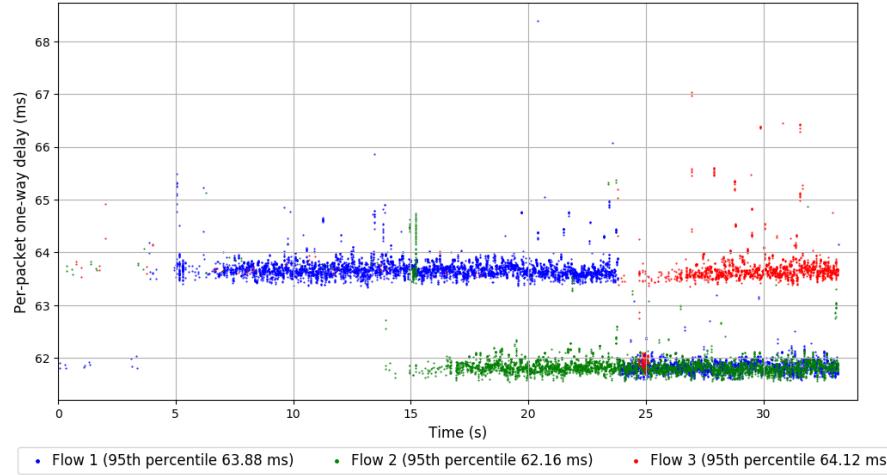
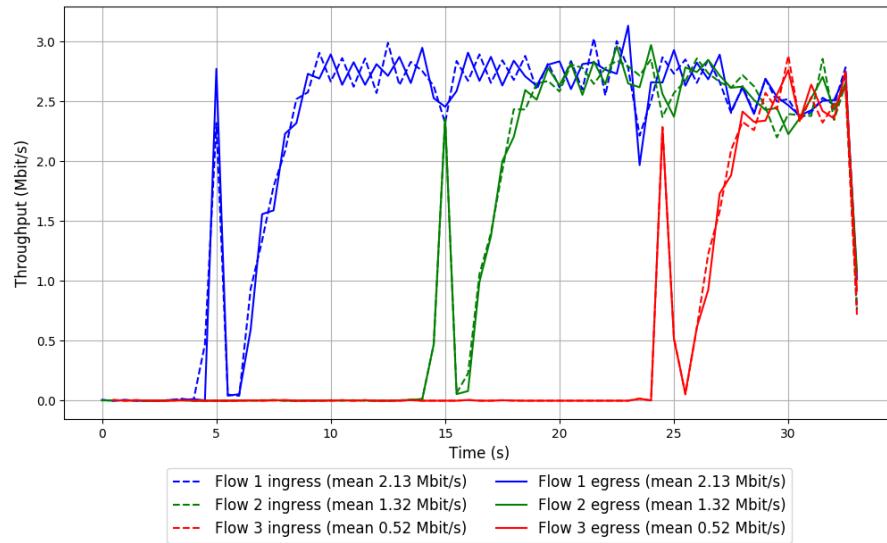


```
Run 5: Statistics of WebRTC media

Start at: 2018-02-01 05:10:07
End at: 2018-02-01 05:10:37

# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 63.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 63.876 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 62.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 64.120 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link



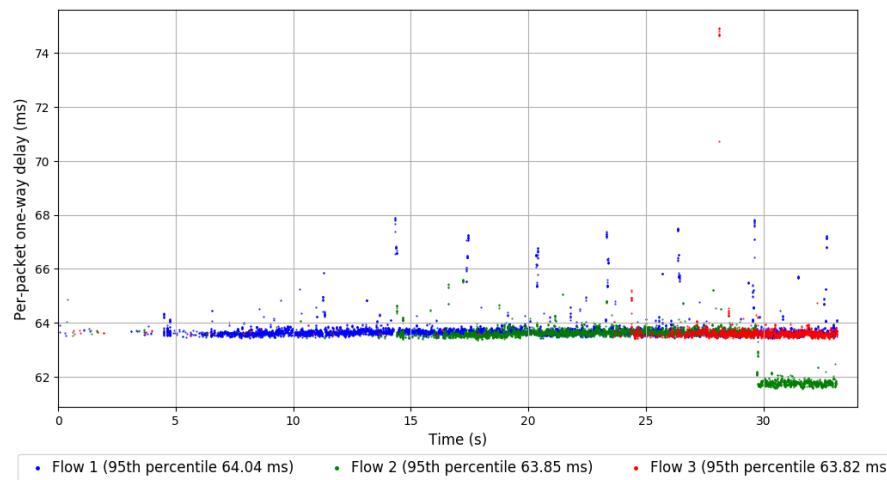
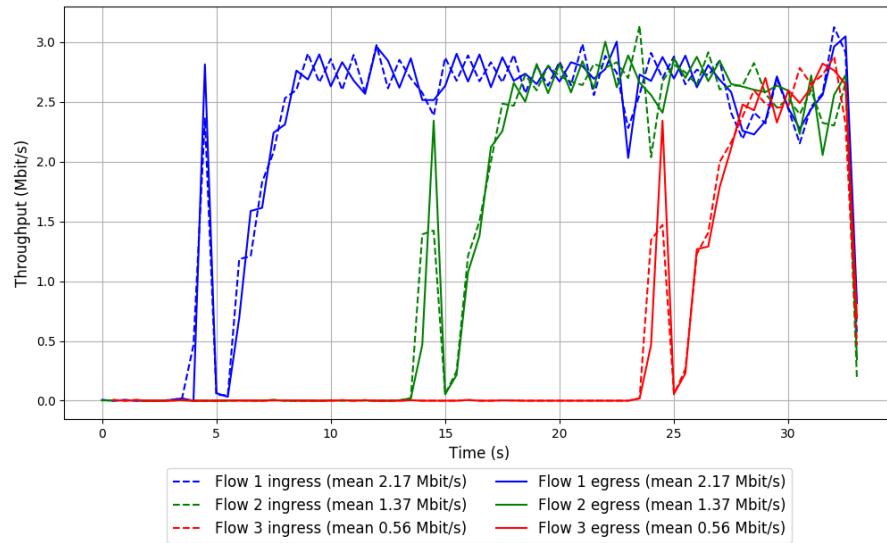
Run 6: Statistics of WebRTC media

Start at: 2018-02-01 05:26:31

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

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 63.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 64.039 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 63.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.821 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link



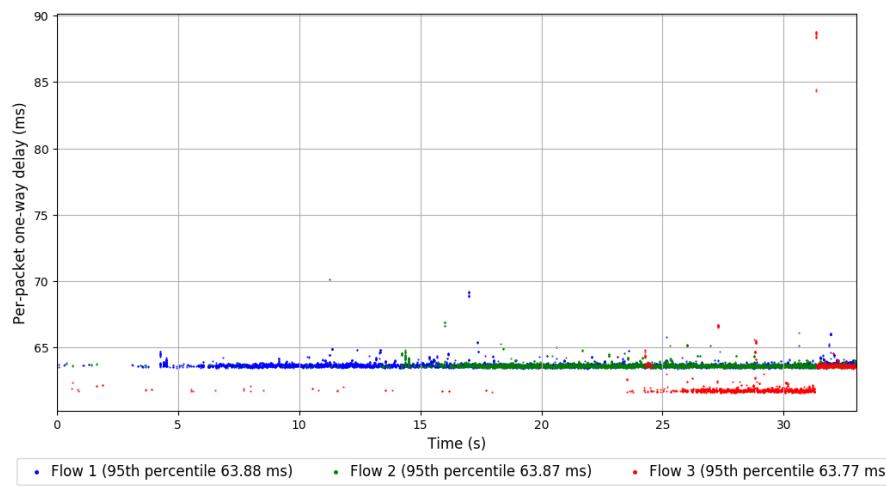
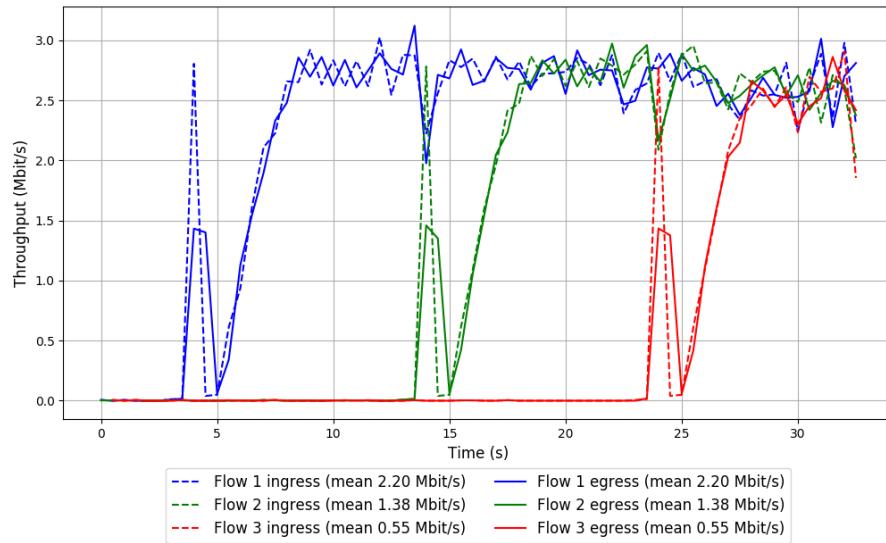
Run 7: Statistics of WebRTC media

Start at: 2018-02-01 05:43:09

End at: 2018-02-01 05:43:39

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.880 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.773 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

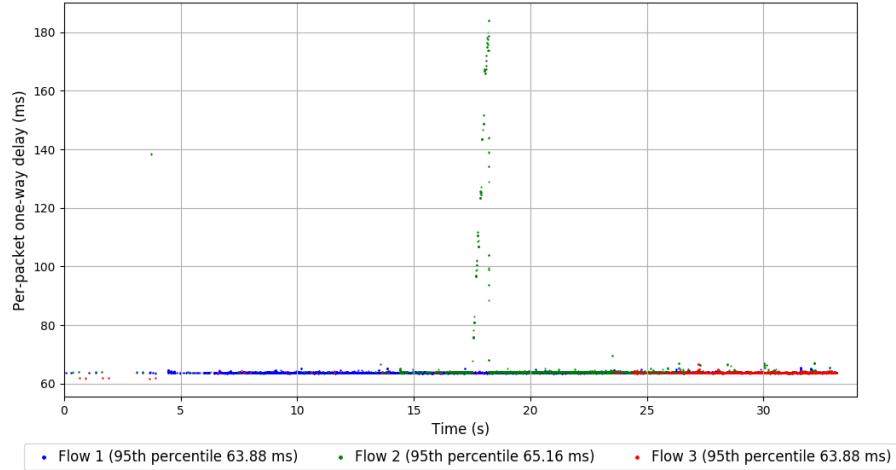
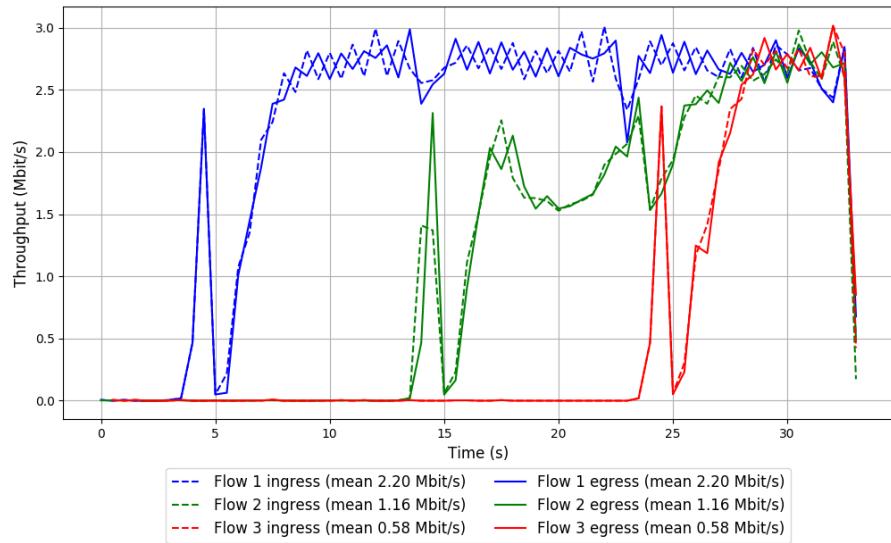


```
Run 8: Statistics of WebRTC media

Start at: 2018-02-01 05:59:56
End at: 2018-02-01 06:00:26

# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 64.013 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.885 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 65.163 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 63.876 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link



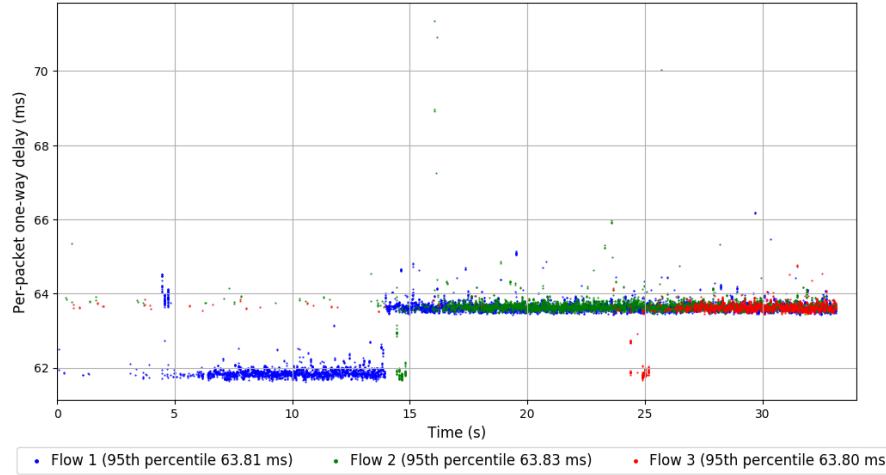
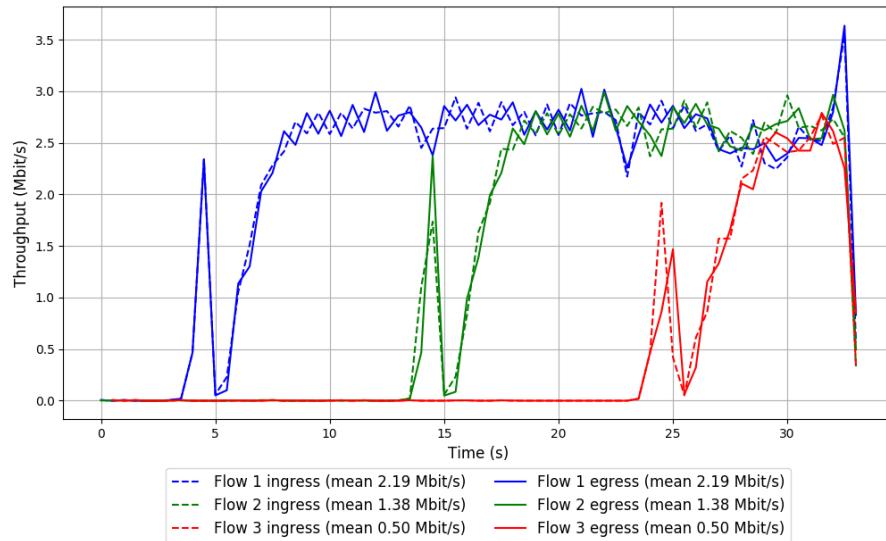
Run 9: Statistics of WebRTC media

Start at: 2018-02-01 06:16:56

End at: 2018-02-01 06:17:26

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 63.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 63.814 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 63.797 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

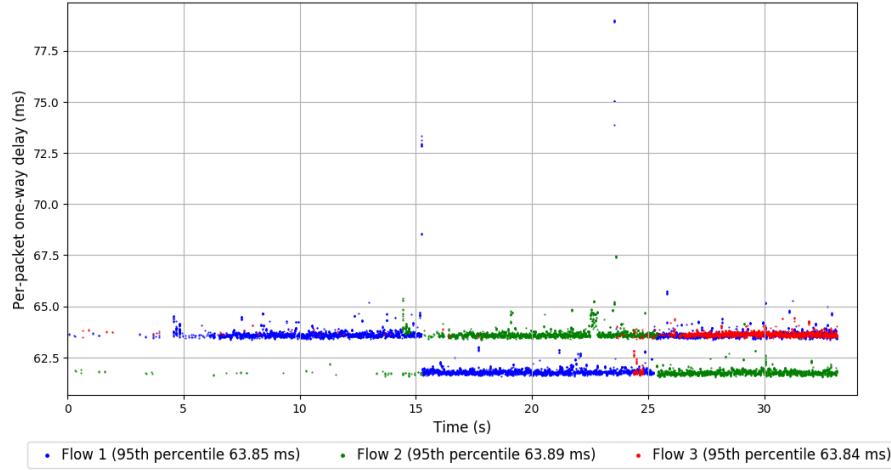
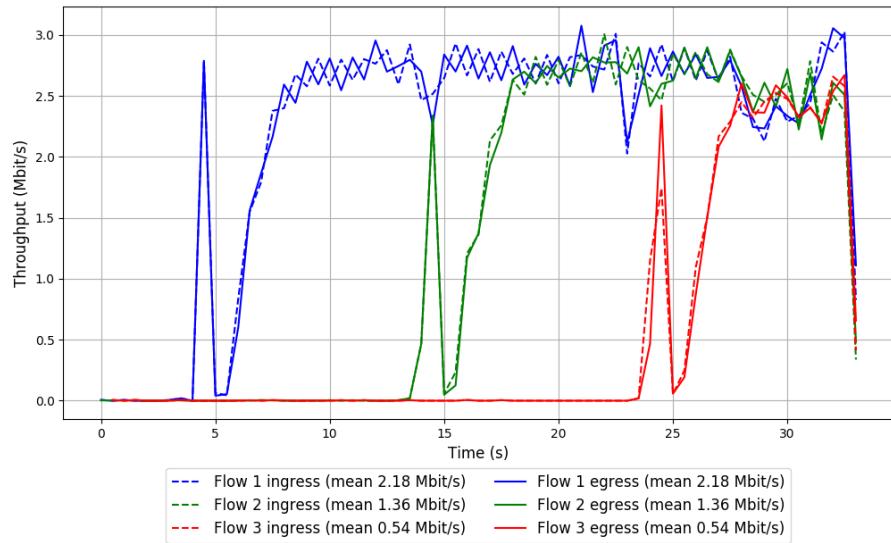


```
Run 10: Statistics of WebRTC media

Start at: 2018-02-01 06:33:35
End at: 2018-02-01 06:34:05

# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 63.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 63.892 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 63.837 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



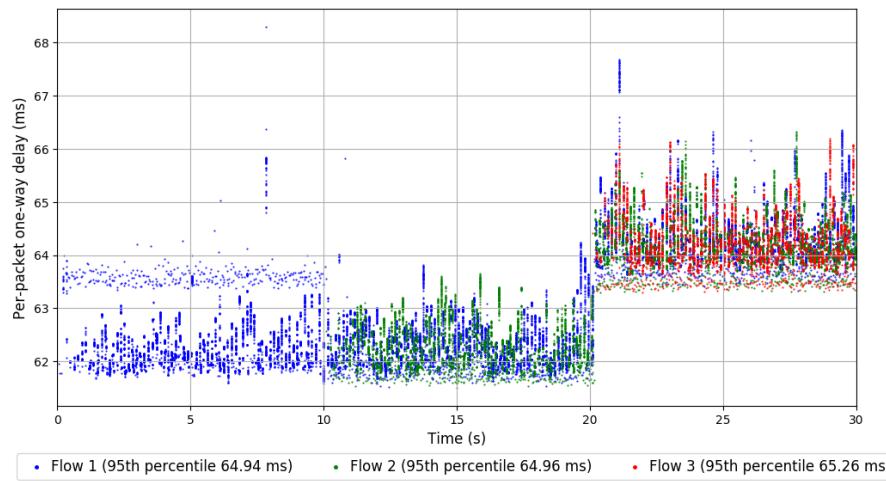
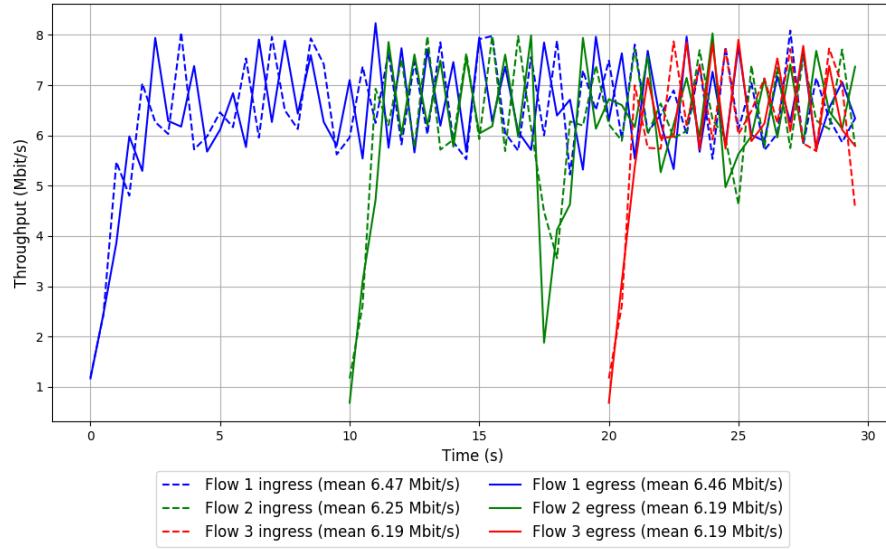
Run 1: Statistics of Sprout

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

End at: 2018-02-01 04:20:27

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 65.057 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 64.940 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 64.957 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 65.259 ms
Loss rate: 0.02%
```

Run 1: Report of Sprout — Data Link



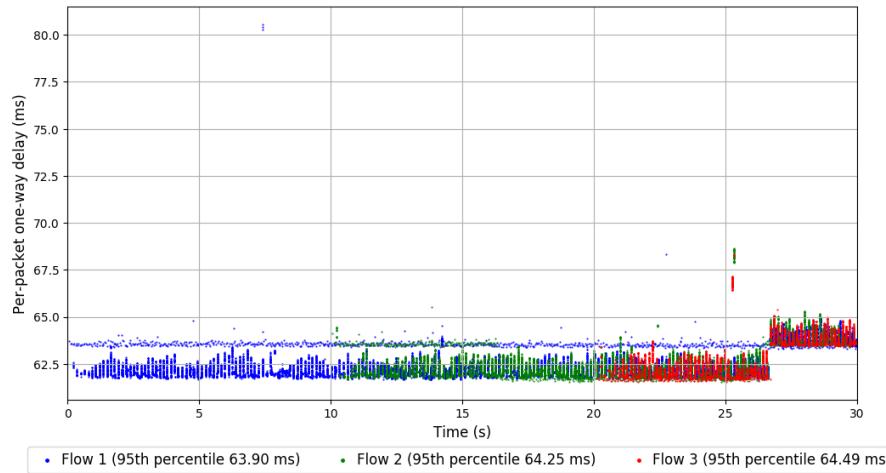
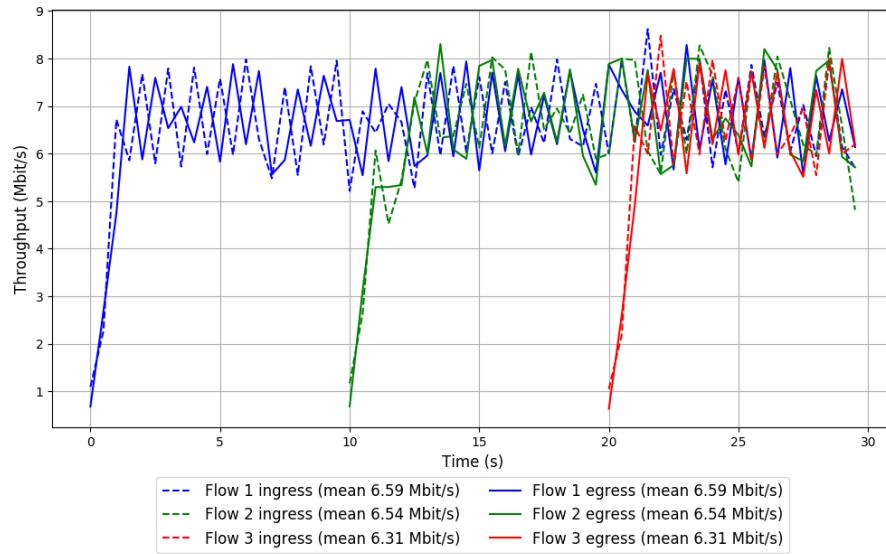
Run 2: Statistics of Sprout

Start at: 2018-02-01 04:36:11

End at: 2018-02-01 04:36:41

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 64.178 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 63.897 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 64.253 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 64.491 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



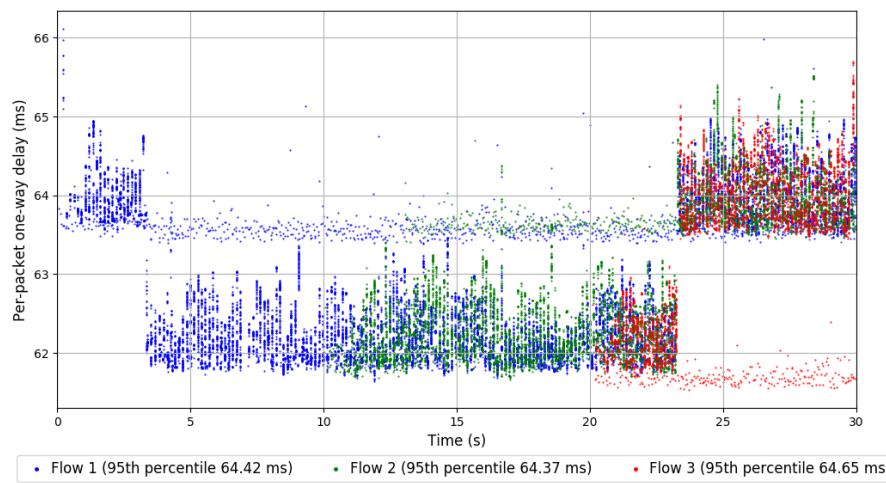
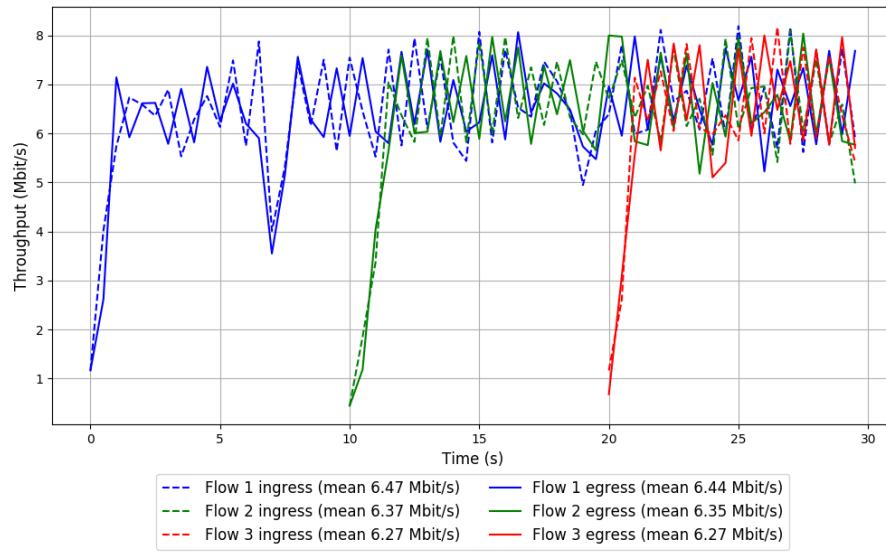
Run 3: Statistics of Sprout

Start at: 2018-02-01 04:52:24

End at: 2018-02-01 04:52:54

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 64.462 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 64.417 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 64.374 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 64.649 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



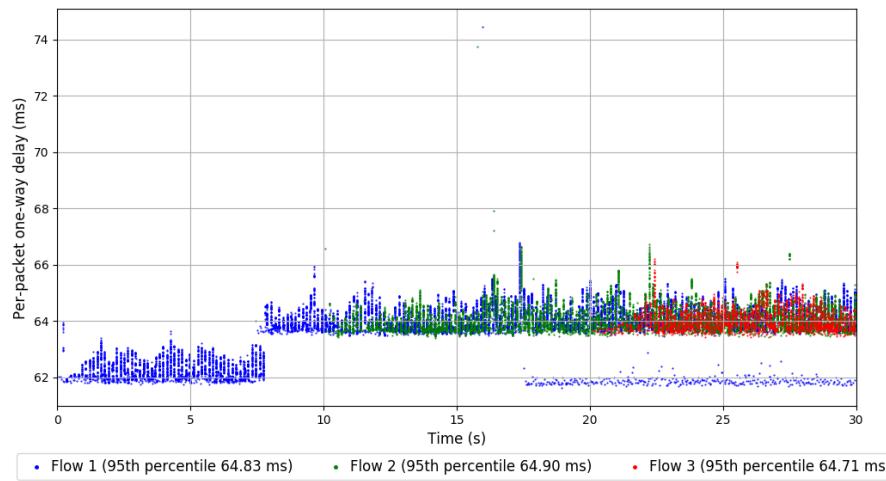
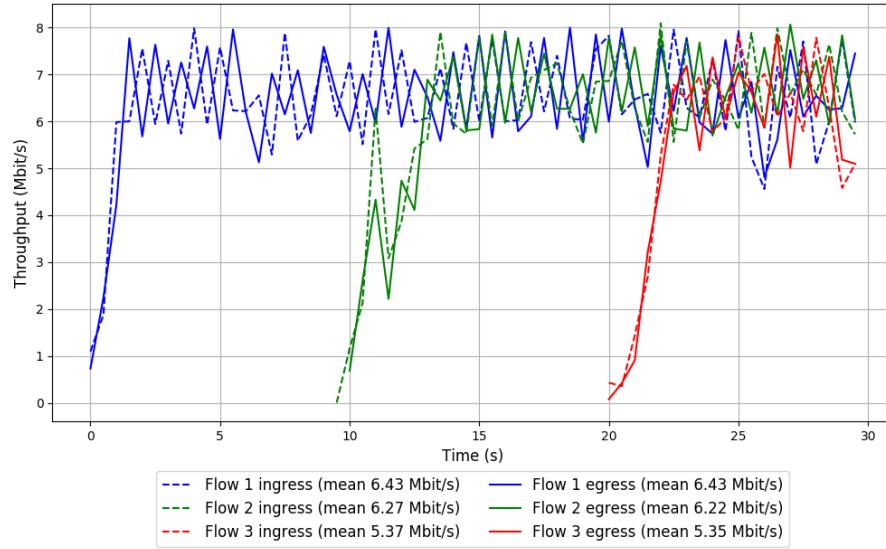
Run 4: Statistics of Sprout

Start at: 2018-02-01 05:08:40

End at: 2018-02-01 05:09:10

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 64.839 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 64.827 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 64.901 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 64.707 ms
Loss rate: 0.27%
```

Run 4: Report of Sprout — Data Link



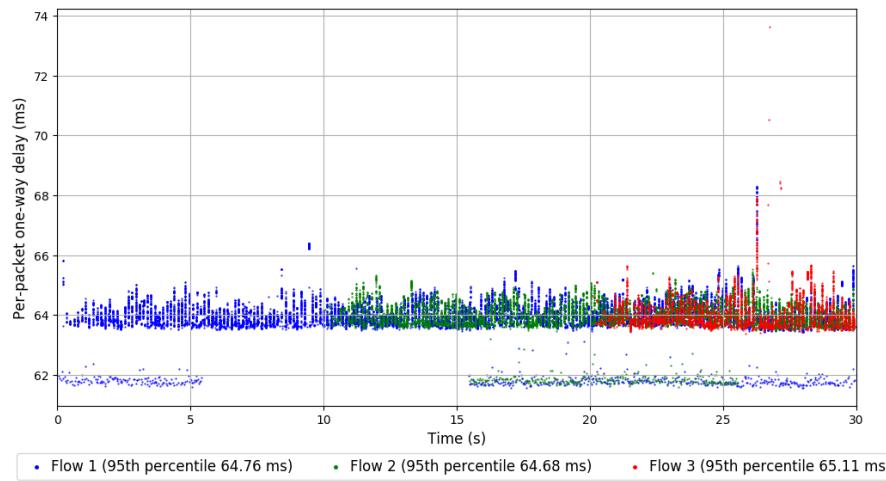
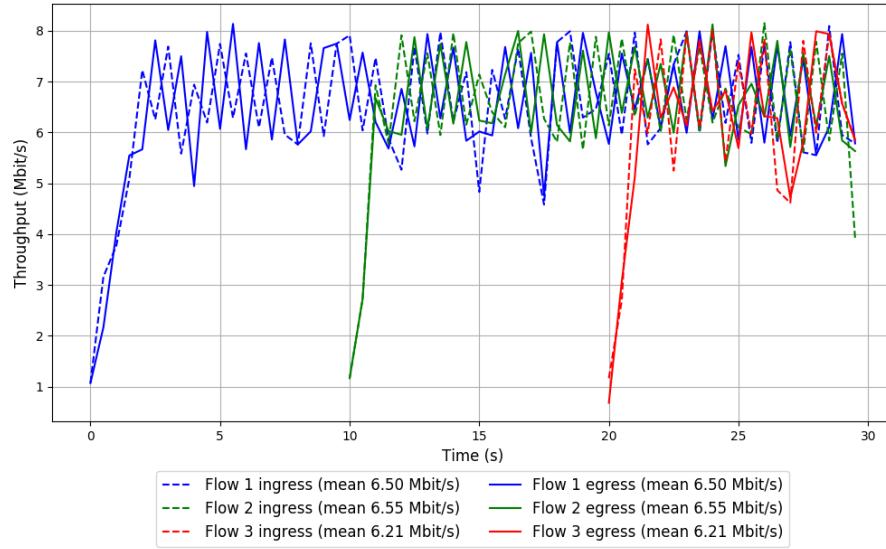
Run 5: Statistics of Sprout

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

End at: 2018-02-01 05:25:32

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 64.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 64.764 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 64.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 65.115 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



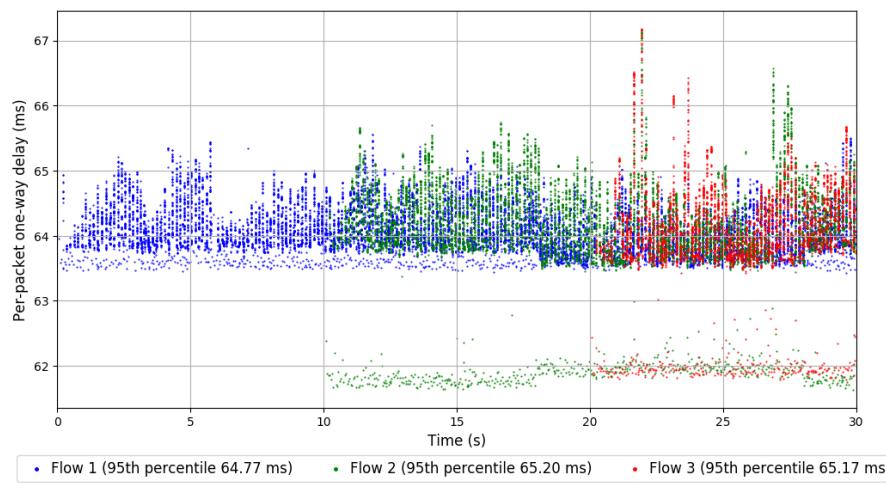
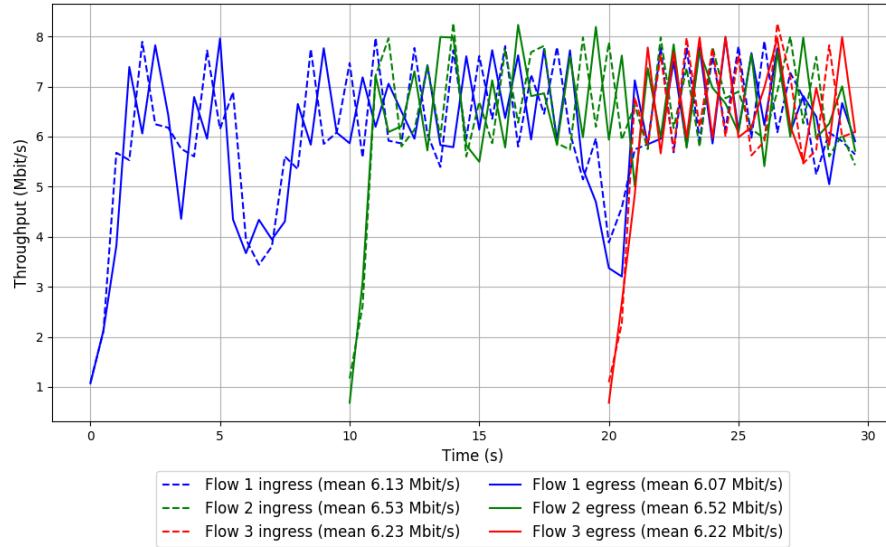
Run 6: Statistics of Sprout

Start at: 2018-02-01 05:41:39

End at: 2018-02-01 05:42:09

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 64.982 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 64.774 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 65.196 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 65.166 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link



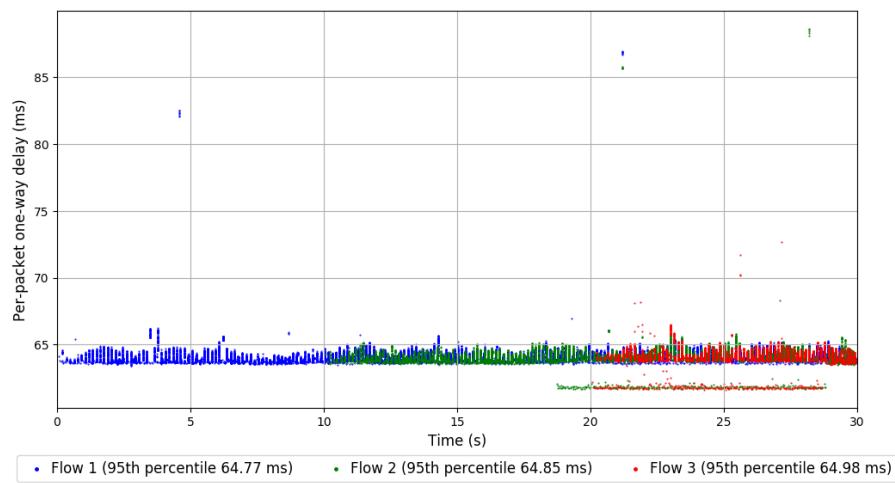
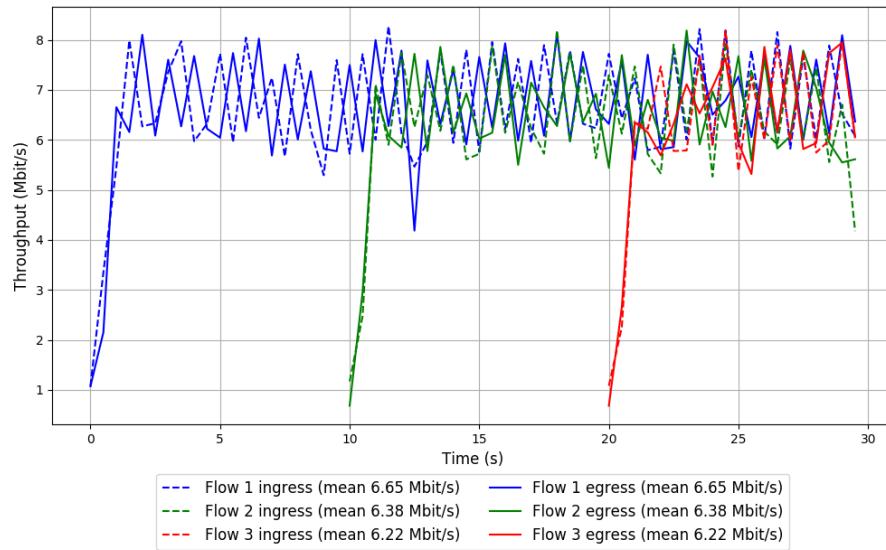
Run 7: Statistics of Sprout

Start at: 2018-02-01 05:58:28

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

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 64.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 64.772 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 64.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 64.977 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



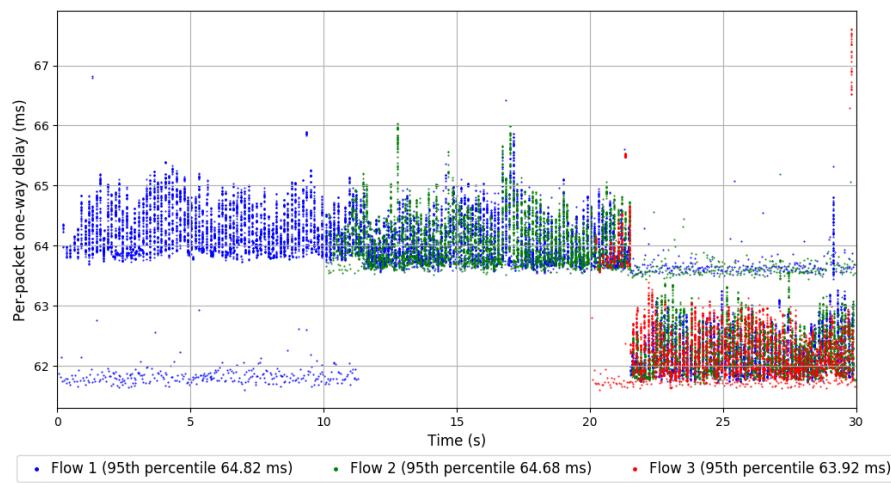
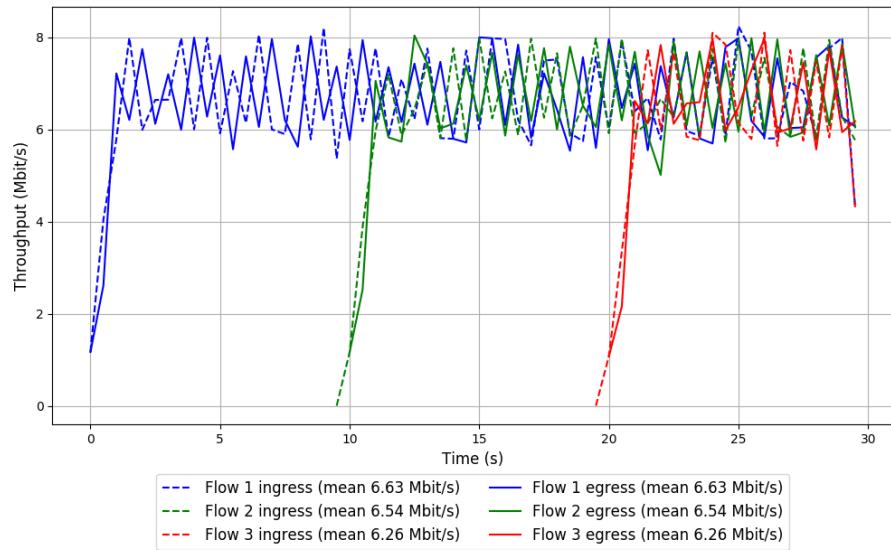
Run 8: Statistics of Sprout

Start at: 2018-02-01 06:15:26

End at: 2018-02-01 06:15:56

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 64.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 64.821 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 64.679 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 63.917 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



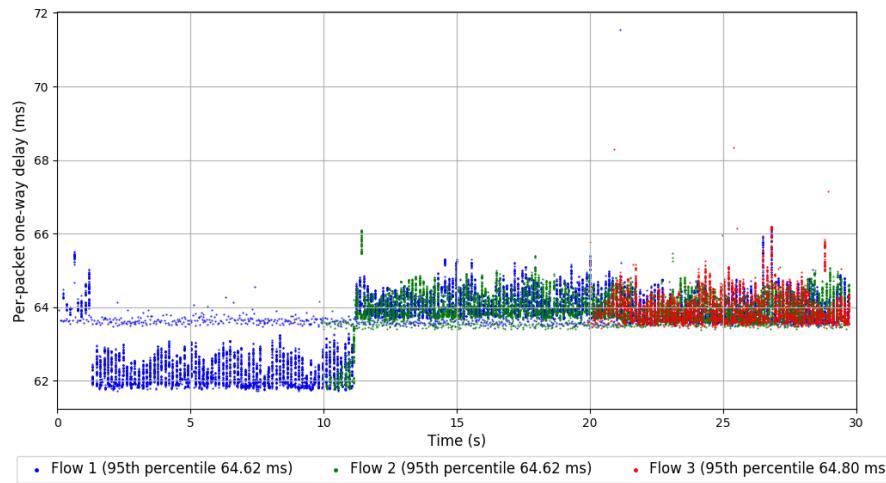
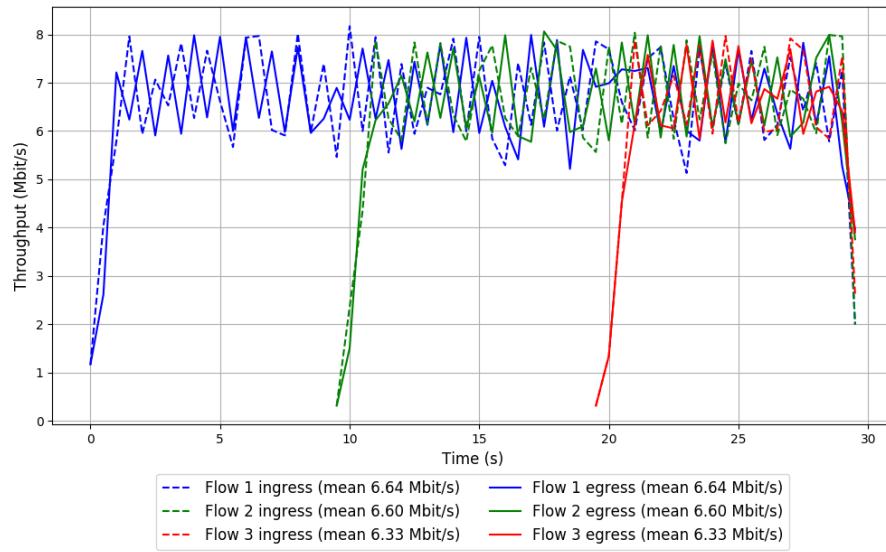
Run 9: Statistics of Sprout

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

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

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 64.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 64.620 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 64.620 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



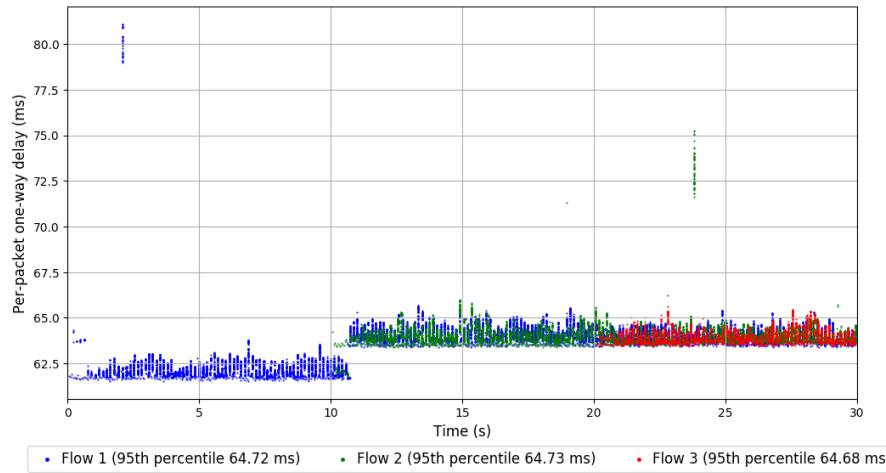
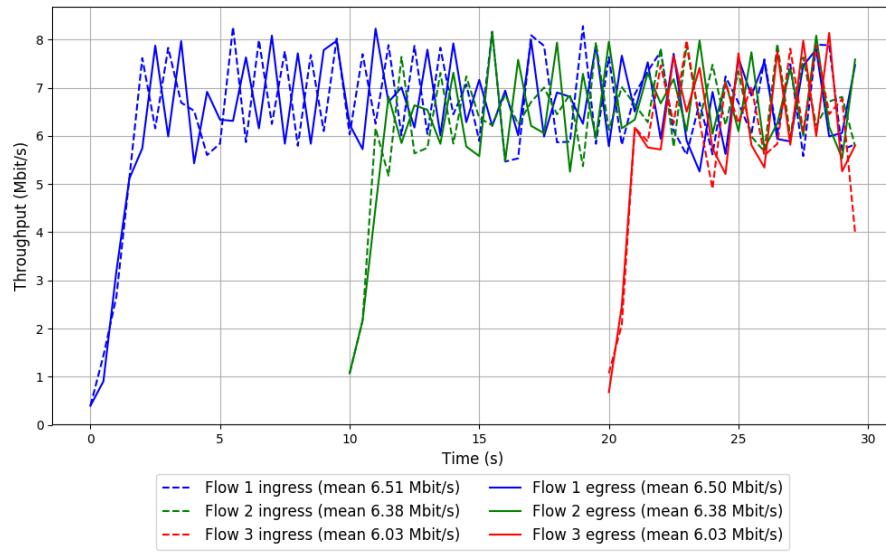
Run 10: Statistics of Sprout

Start at: 2018-02-01 06:48:37

End at: 2018-02-01 06:49:07

```
# Below is generated by plot.py at 2018-02-01 09:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 64.715 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 64.716 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 64.728 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: 64.677 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

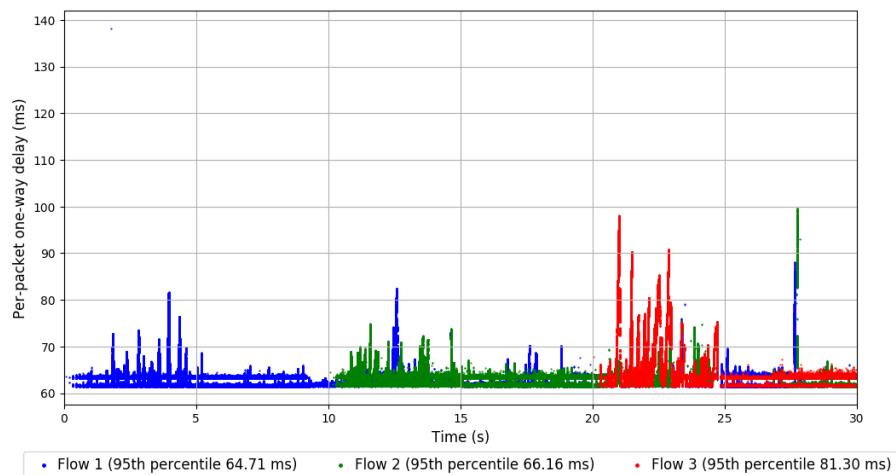
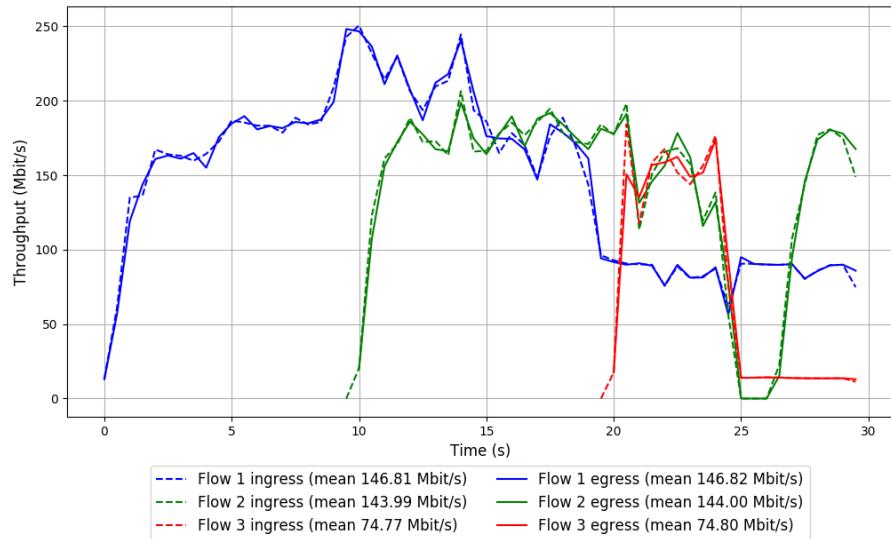


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-01 04:09:18
End at: 2018-02-01 04:09:48

# Below is generated by plot.py at 2018-02-01 09:13:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.53 Mbit/s
95th percentile per-packet one-way delay: 67.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 146.82 Mbit/s
95th percentile per-packet one-way delay: 64.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 144.00 Mbit/s
95th percentile per-packet one-way delay: 66.164 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.80 Mbit/s
95th percentile per-packet one-way delay: 81.299 ms
Loss rate: 0.00%
```

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



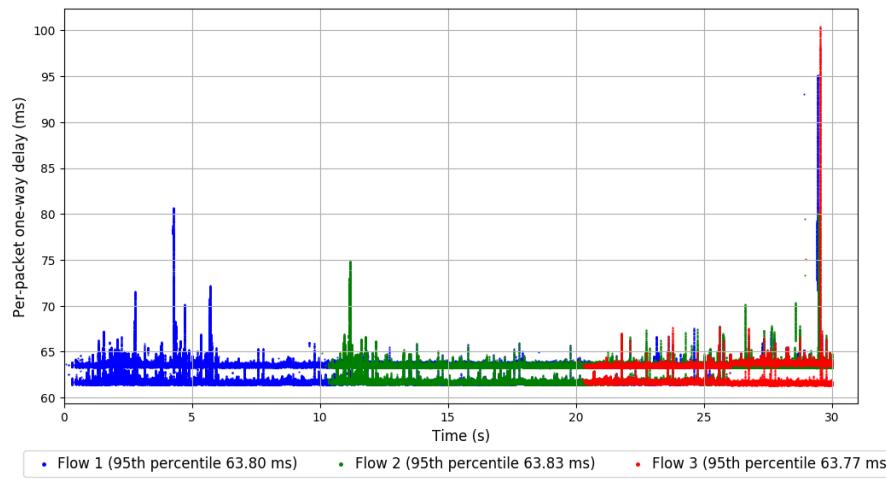
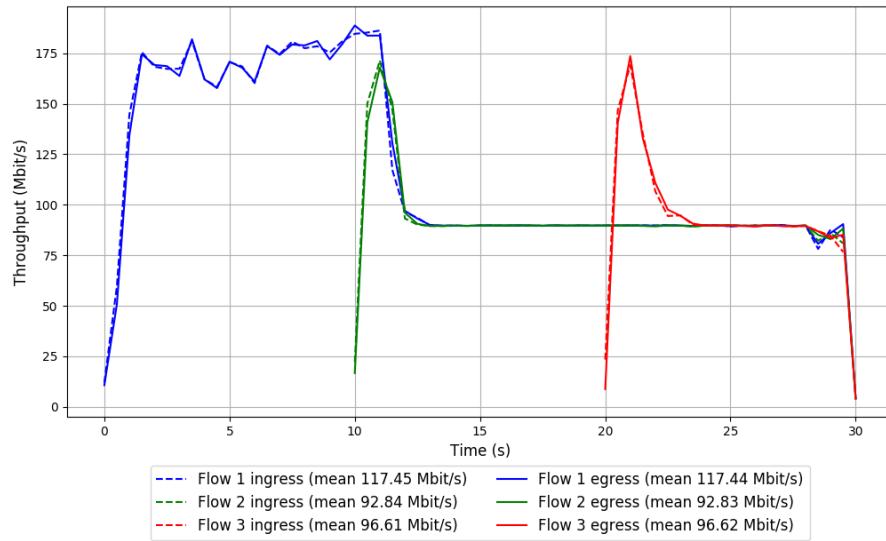
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-01 04:25:51

End at: 2018-02-01 04:26:21

```
# Below is generated by plot.py at 2018-02-01 09:13:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 211.21 Mbit/s
95th percentile per-packet one-way delay: 63.799 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.44 Mbit/s
95th percentile per-packet one-way delay: 63.799 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 63.766 ms
Loss rate: 0.00%
```

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



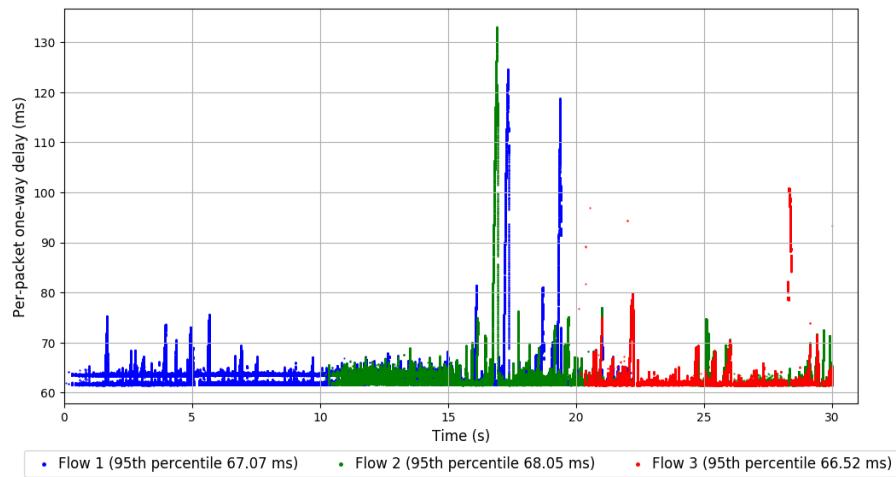
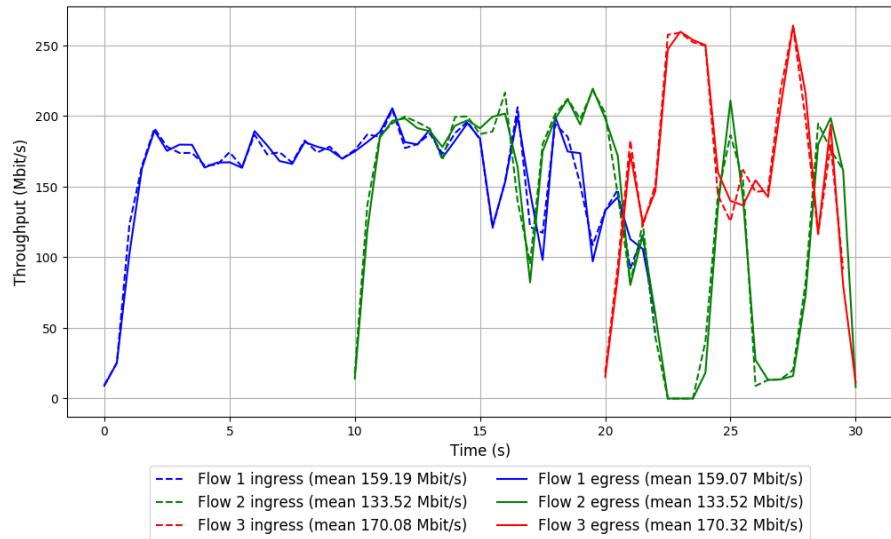
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-01 04:42:02

End at: 2018-02-01 04:42:32

```
# Below is generated by plot.py at 2018-02-01 09:13:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.89 Mbit/s
95th percentile per-packet one-way delay: 67.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.07 Mbit/s
95th percentile per-packet one-way delay: 67.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 133.52 Mbit/s
95th percentile per-packet one-way delay: 68.053 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.32 Mbit/s
95th percentile per-packet one-way delay: 66.519 ms
Loss rate: 0.00%
```

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



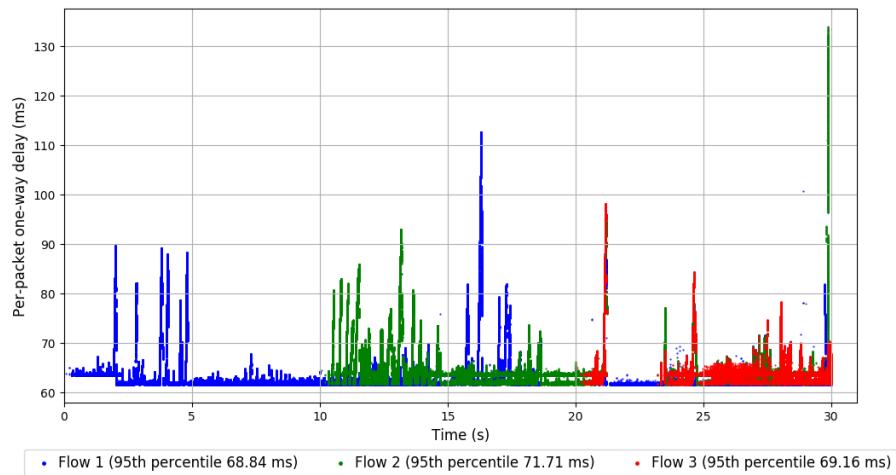
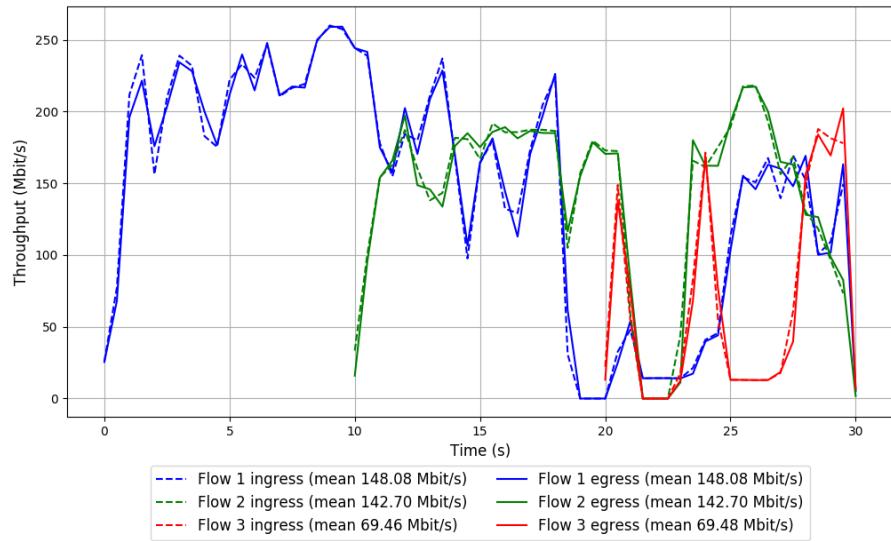
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-01 04:58:15

End at: 2018-02-01 04:58:45

```
# Below is generated by plot.py at 2018-02-01 09:13:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 266.04 Mbit/s
95th percentile per-packet one-way delay: 70.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.08 Mbit/s
95th percentile per-packet one-way delay: 68.842 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.70 Mbit/s
95th percentile per-packet one-way delay: 71.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.48 Mbit/s
95th percentile per-packet one-way delay: 69.155 ms
Loss rate: 0.00%
```

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



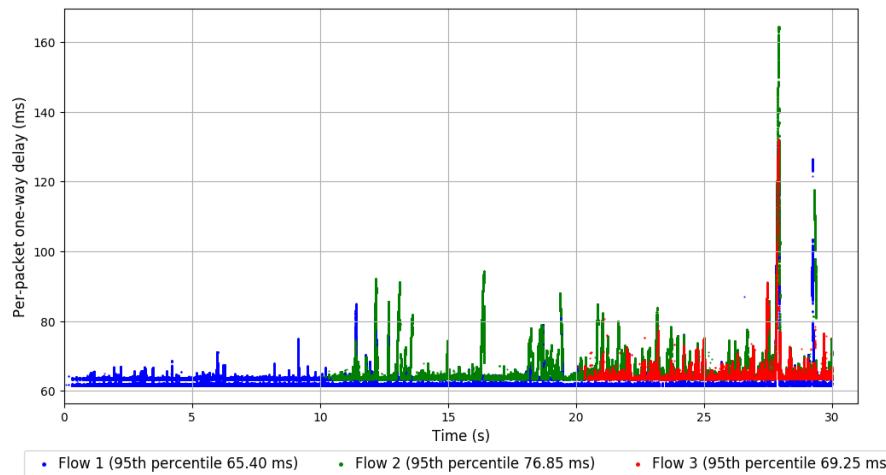
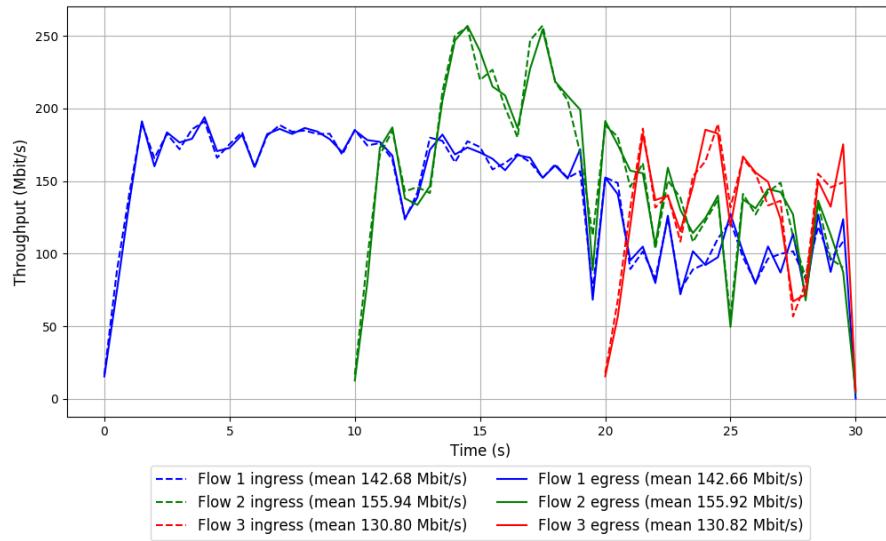
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-01 05:14:37

End at: 2018-02-01 05:15:07

```
# Below is generated by plot.py at 2018-02-01 09:14:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.84 Mbit/s
95th percentile per-packet one-way delay: 71.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.66 Mbit/s
95th percentile per-packet one-way delay: 65.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 155.92 Mbit/s
95th percentile per-packet one-way delay: 76.852 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.82 Mbit/s
95th percentile per-packet one-way delay: 69.247 ms
Loss rate: 0.00%
```

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



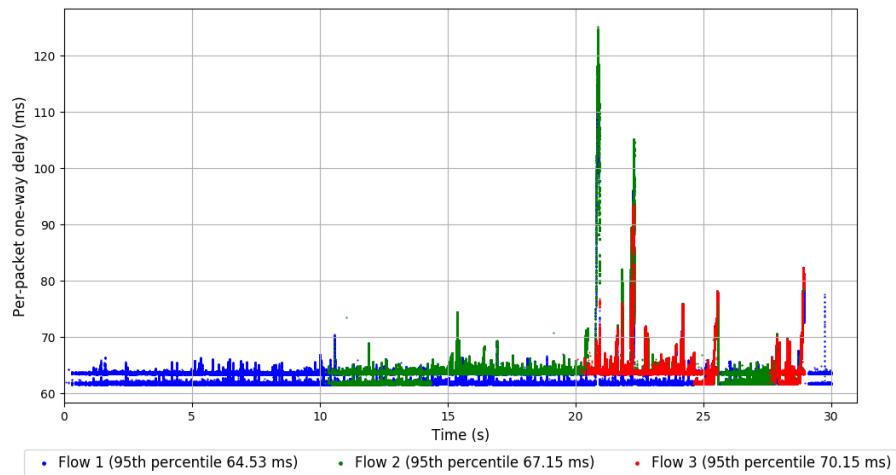
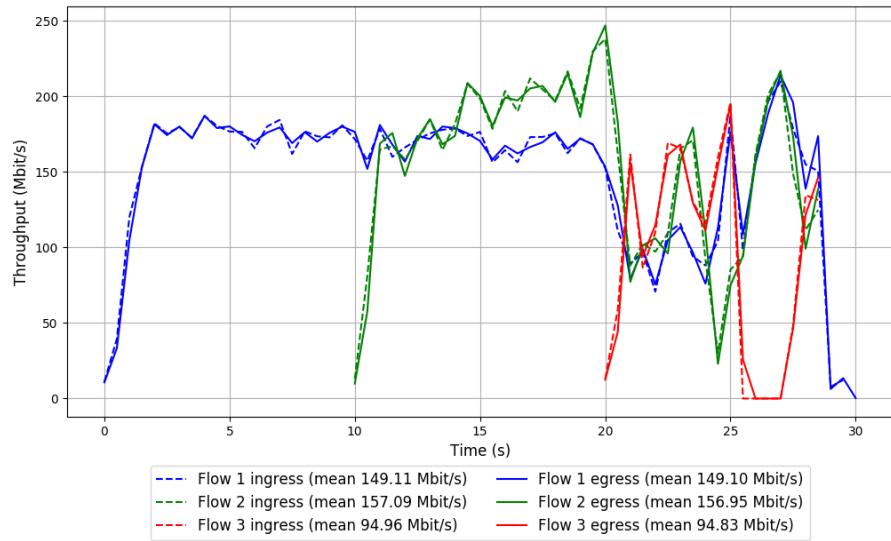
Run 6: Statistics of TaoVA-100x

Start at: 2018-02-01 05:31:03

End at: 2018-02-01 05:31:33

```
# Below is generated by plot.py at 2018-02-01 09:14:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.96 Mbit/s
95th percentile per-packet one-way delay: 66.005 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.10 Mbit/s
95th percentile per-packet one-way delay: 64.526 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 156.95 Mbit/s
95th percentile per-packet one-way delay: 67.148 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 94.83 Mbit/s
95th percentile per-packet one-way delay: 70.147 ms
Loss rate: 0.00%
```

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



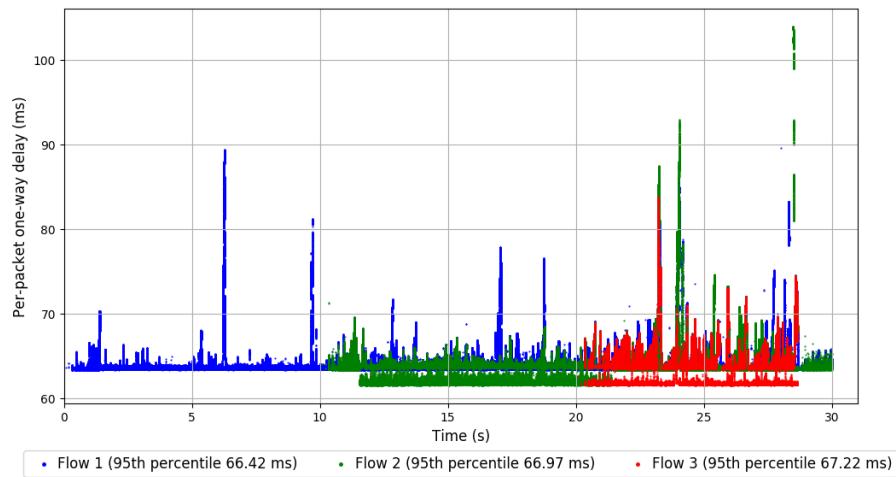
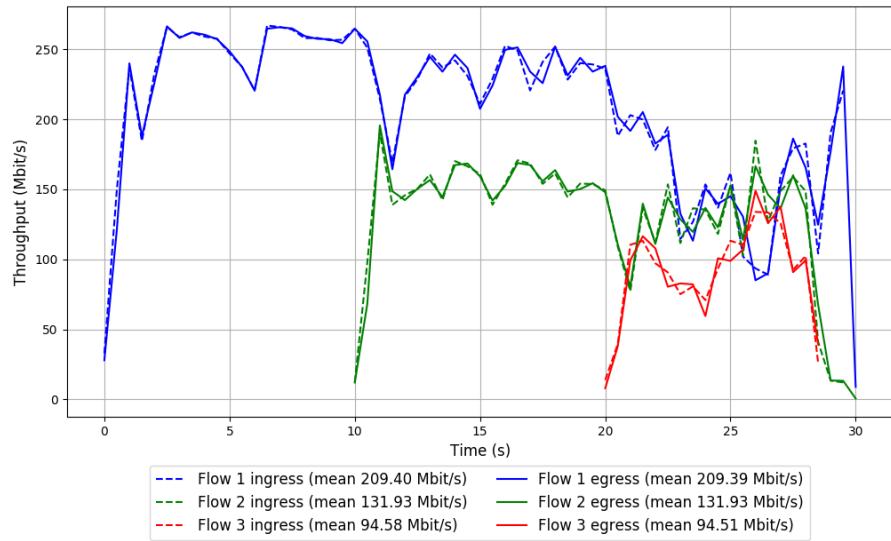
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-01 05:47:46

End at: 2018-02-01 05:48:16

```
# Below is generated by plot.py at 2018-02-01 09:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.30 Mbit/s
95th percentile per-packet one-way delay: 66.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.39 Mbit/s
95th percentile per-packet one-way delay: 66.418 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 131.93 Mbit/s
95th percentile per-packet one-way delay: 66.975 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 67.223 ms
Loss rate: 0.00%
```

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



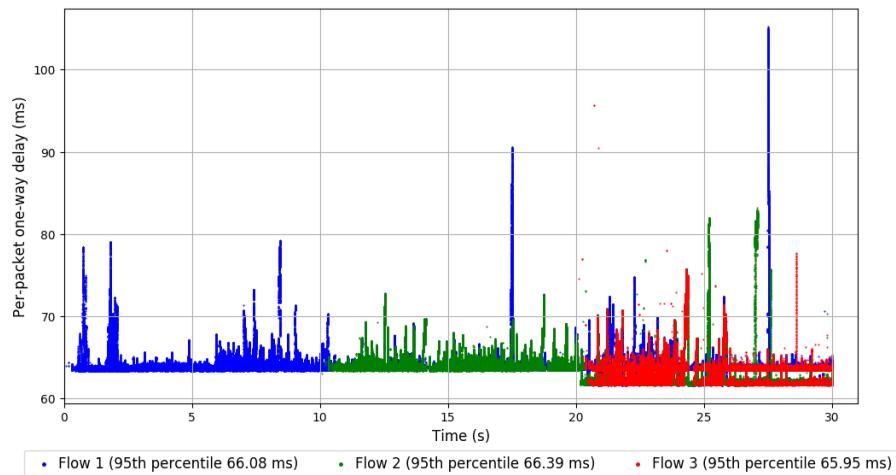
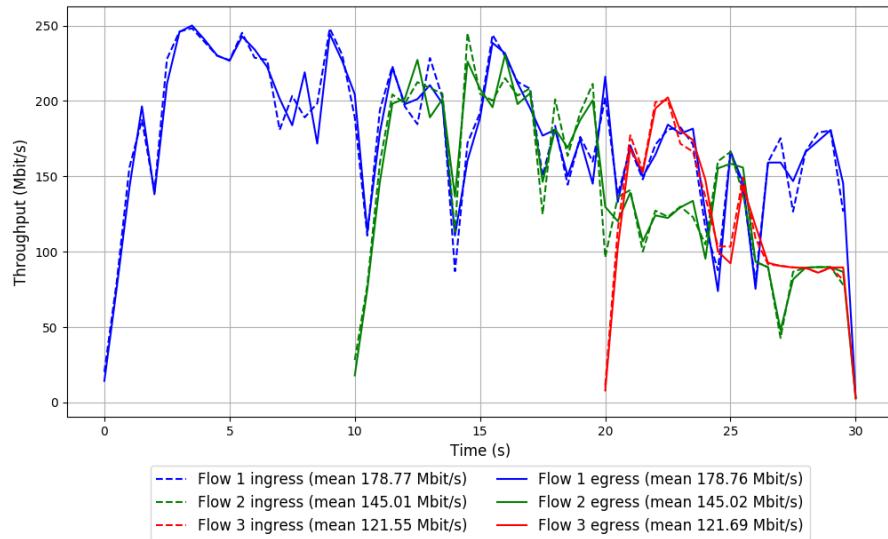
Run 8: Statistics of TaoVA-100x

Start at: 2018-02-01 06:04:27

End at: 2018-02-01 06:04:57

```
# Below is generated by plot.py at 2018-02-01 09:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.58 Mbit/s
95th percentile per-packet one-way delay: 66.166 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.76 Mbit/s
95th percentile per-packet one-way delay: 66.078 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.02 Mbit/s
95th percentile per-packet one-way delay: 66.386 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 121.69 Mbit/s
95th percentile per-packet one-way delay: 65.949 ms
Loss rate: 0.00%
```

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



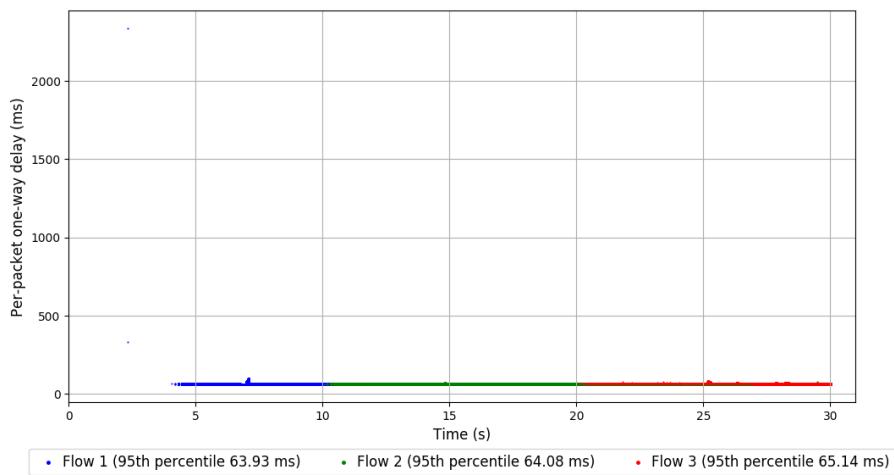
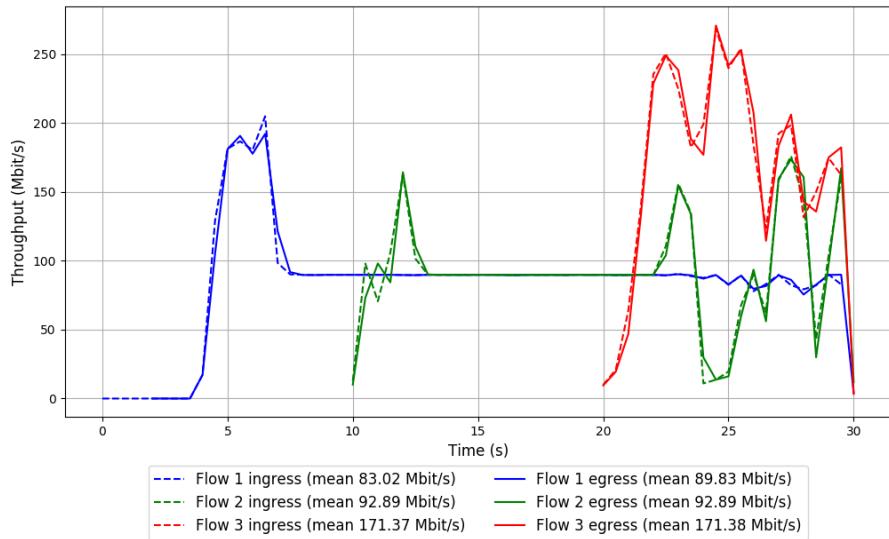
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-01 06:21:30

End at: 2018-02-01 06:22:00

```
# Below is generated by plot.py at 2018-02-01 09:19:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.22 Mbit/s
95th percentile per-packet one-way delay: 64.213 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 63.927 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 64.081 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 65.139 ms
Loss rate: 0.00%
```

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

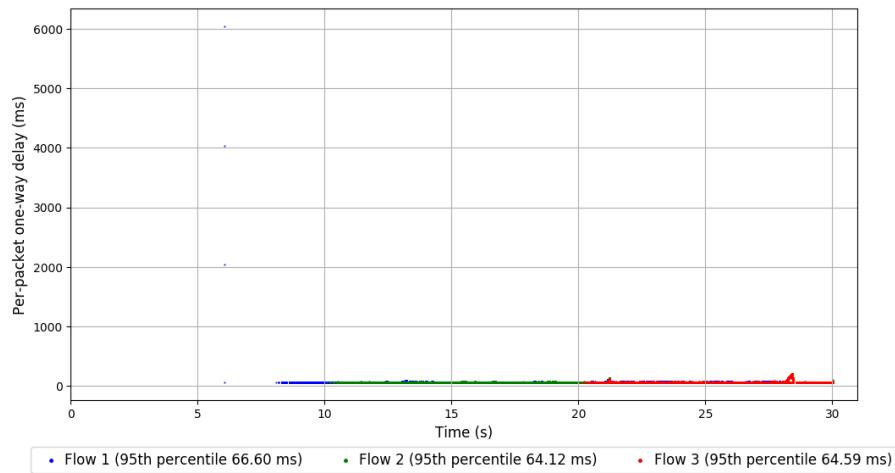
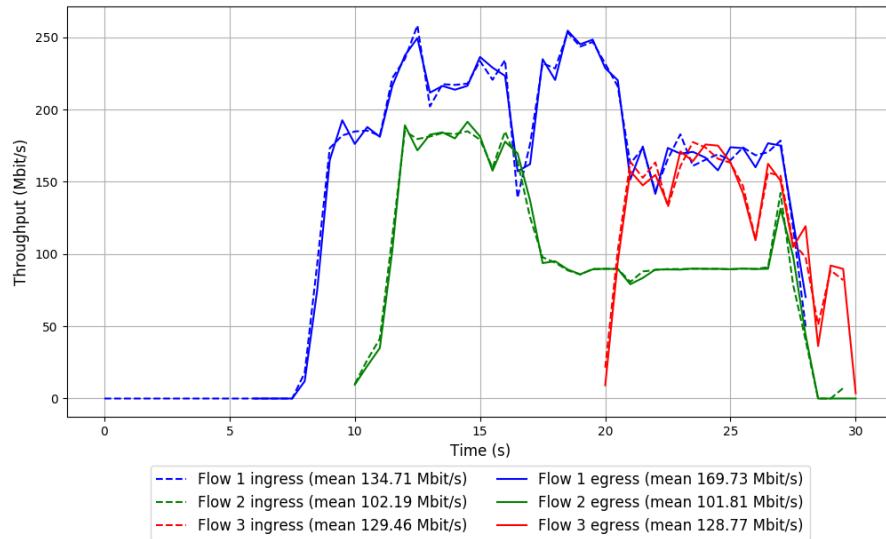


Run 10: Statistics of TaoVA-100x

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

End at: 2018-02-01 06:38:36

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

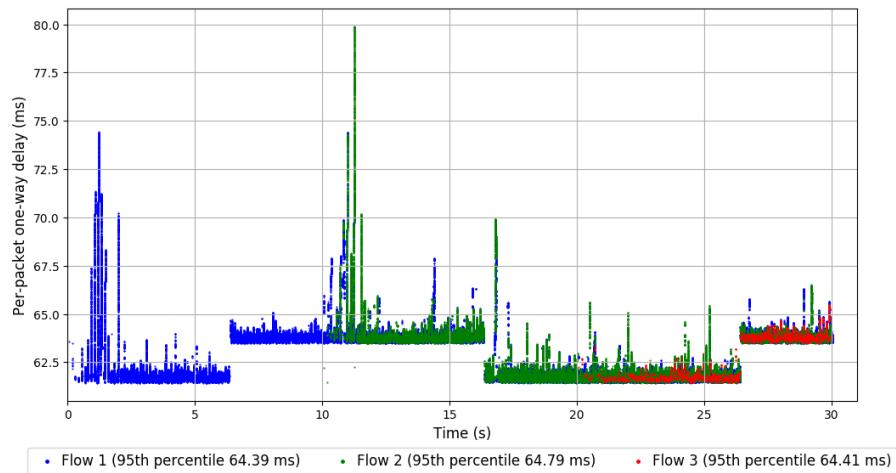
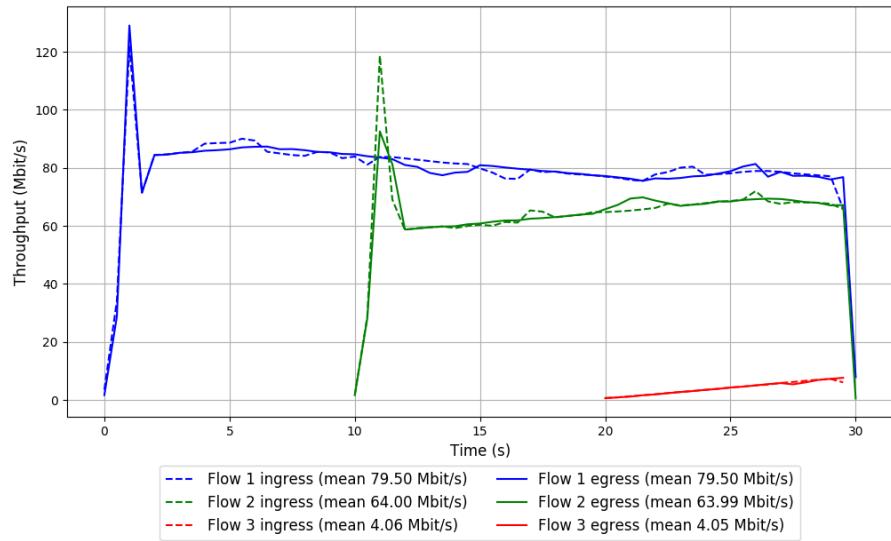


```
Run 1: Statistics of TCP Vegas

Start at: 2018-02-01 04:05:31
End at: 2018-02-01 04:06:01

# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.43 Mbit/s
95th percentile per-packet one-way delay: 64.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 64.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.99 Mbit/s
95th percentile per-packet one-way delay: 64.788 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 64.405 ms
Loss rate: 0.12%
```

Run 1: Report of TCP Vegas — Data Link



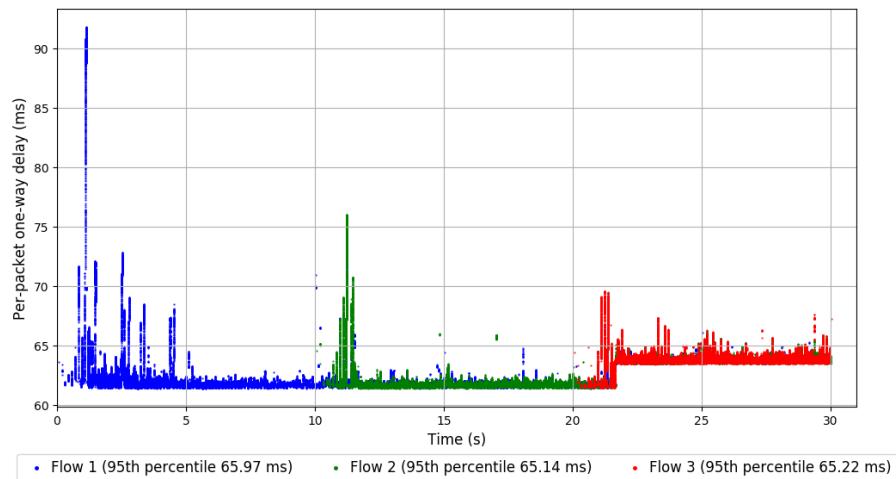
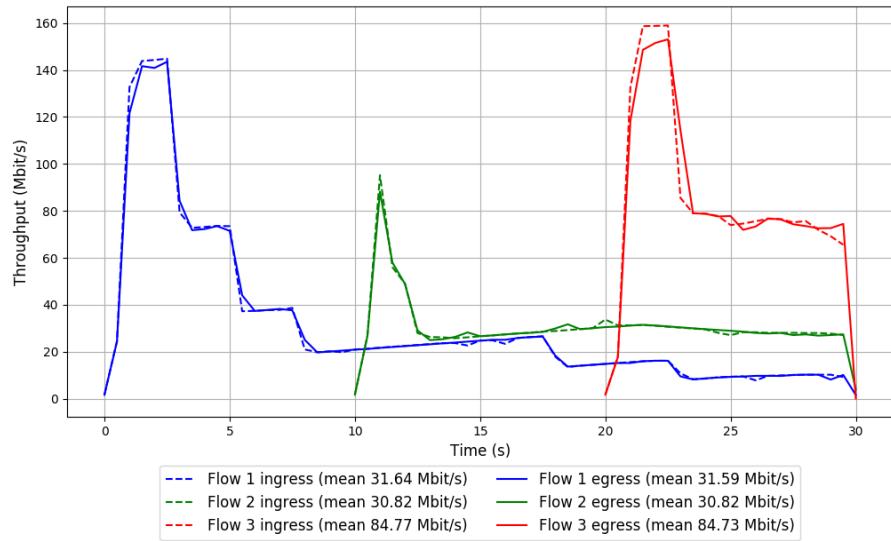
Run 2: Statistics of TCP Vegas

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

End at: 2018-02-01 04:22:36

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.20 Mbit/s
95th percentile per-packet one-way delay: 65.351 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 65.971 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 65.144 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 65.224 ms
Loss rate: 0.02%
```

Run 2: Report of TCP Vegas — Data Link



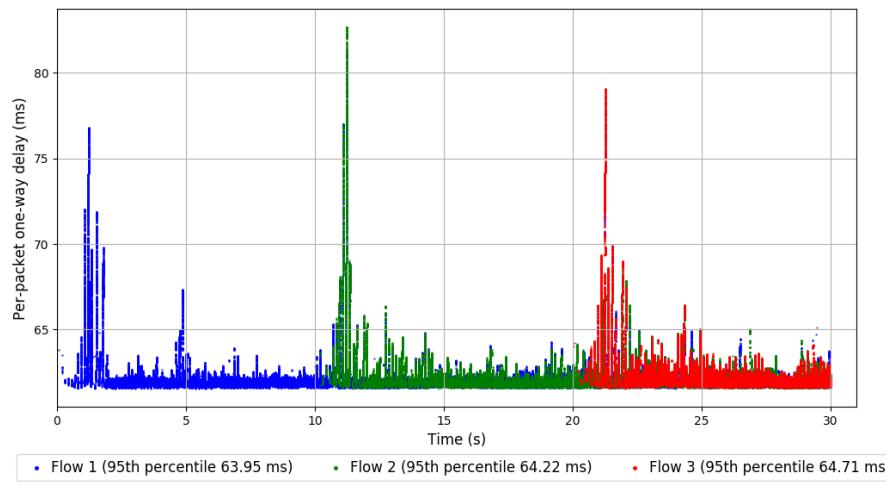
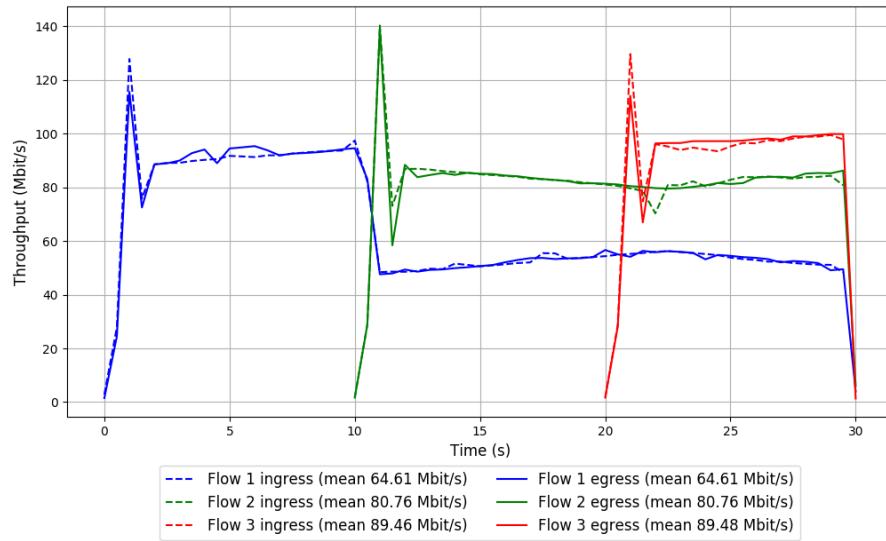
Run 3: Statistics of TCP Vegas

Start at: 2018-02-01 04:38:20

End at: 2018-02-01 04:38:50

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.07 Mbit/s
95th percentile per-packet one-way delay: 64.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.61 Mbit/s
95th percentile per-packet one-way delay: 63.948 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 64.215 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 64.707 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link



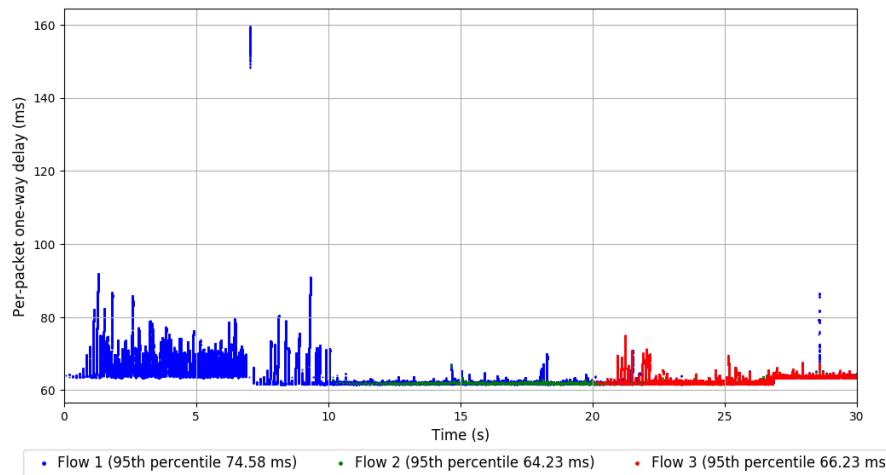
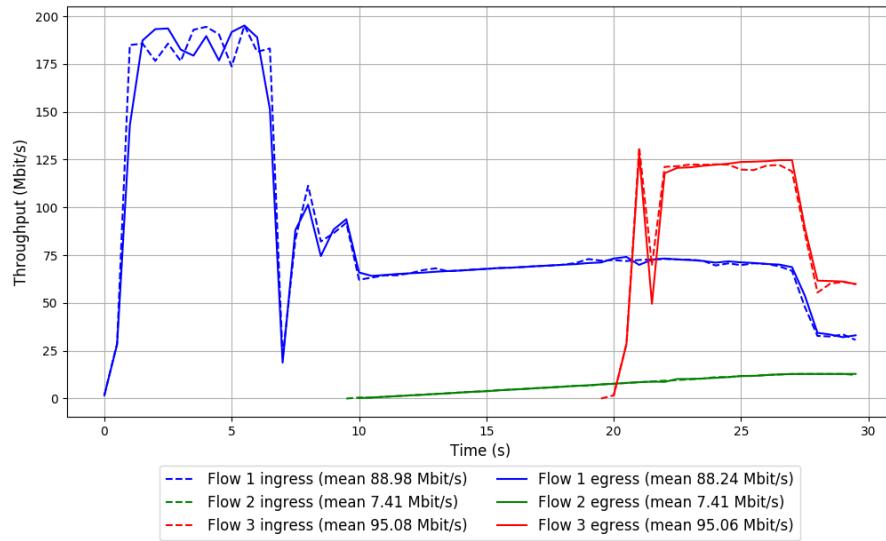
Run 4: Statistics of TCP Vegas

Start at: 2018-02-01 04:54:31

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

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.73 Mbit/s
95th percentile per-packet one-way delay: 73.047 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 88.24 Mbit/s
95th percentile per-packet one-way delay: 74.578 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 64.227 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 95.06 Mbit/s
95th percentile per-packet one-way delay: 66.234 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link



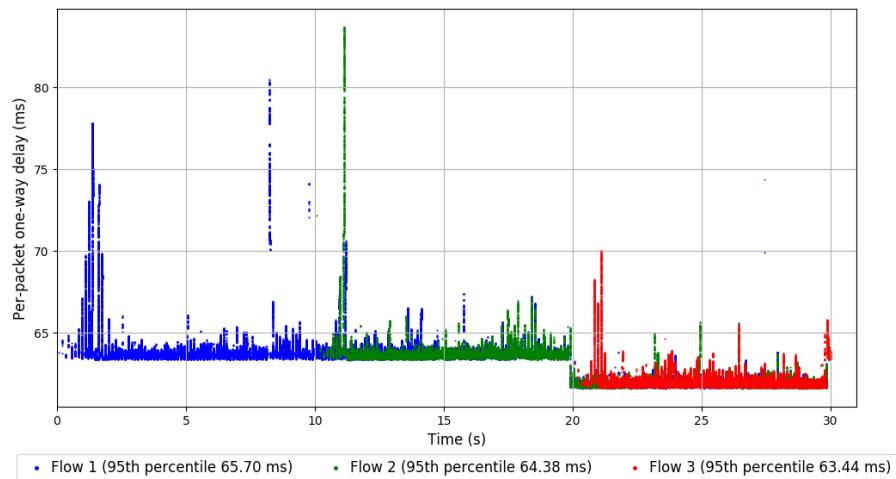
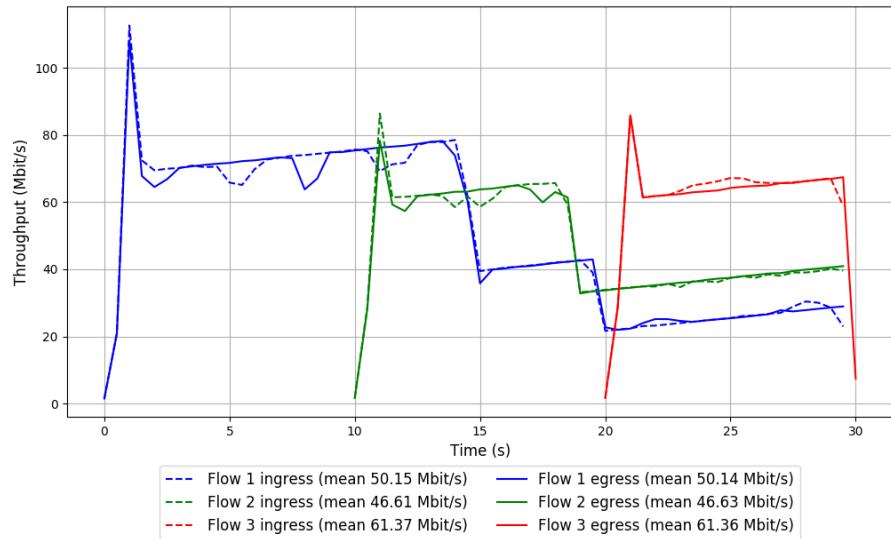
Run 5: Statistics of TCP Vegas

Start at: 2018-02-01 05:10:47

End at: 2018-02-01 05:11:17

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.40 Mbit/s
95th percentile per-packet one-way delay: 64.782 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.14 Mbit/s
95th percentile per-packet one-way delay: 65.699 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 64.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.36 Mbit/s
95th percentile per-packet one-way delay: 63.440 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link



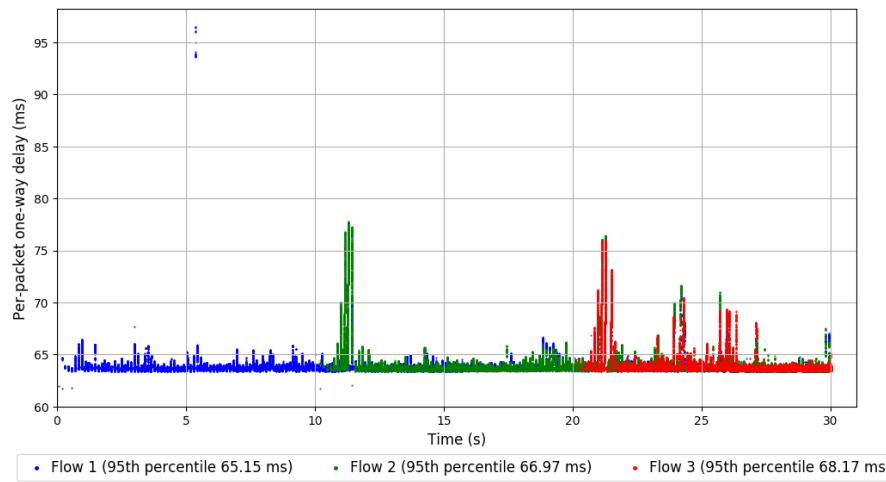
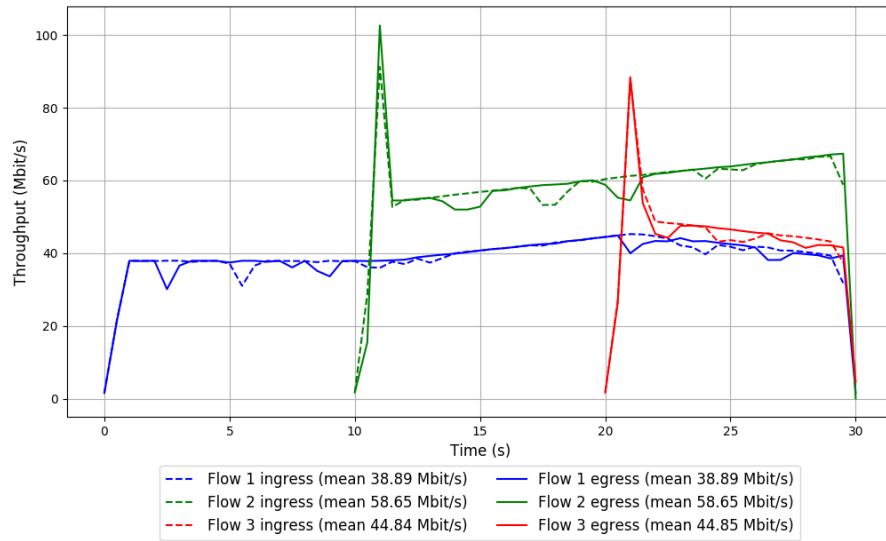
Run 6: Statistics of TCP Vegas

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

End at: 2018-02-01 05:27:42

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 66.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 65.146 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 66.975 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.85 Mbit/s
95th percentile per-packet one-way delay: 68.175 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link



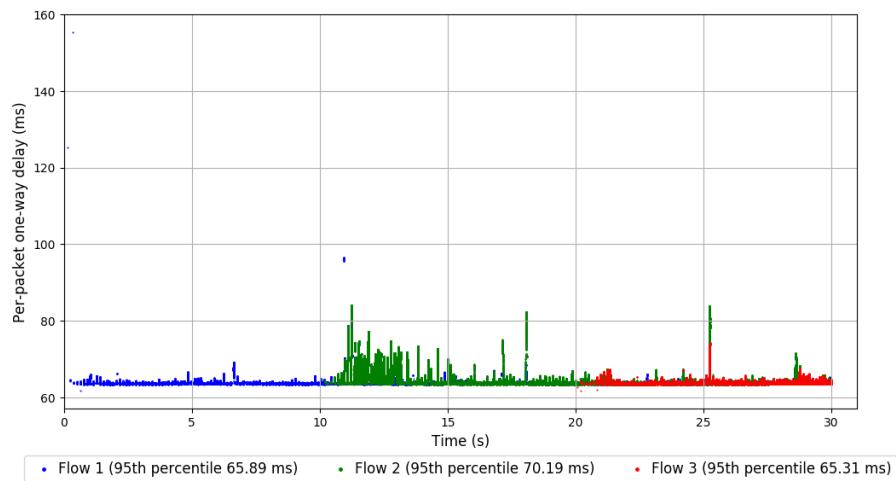
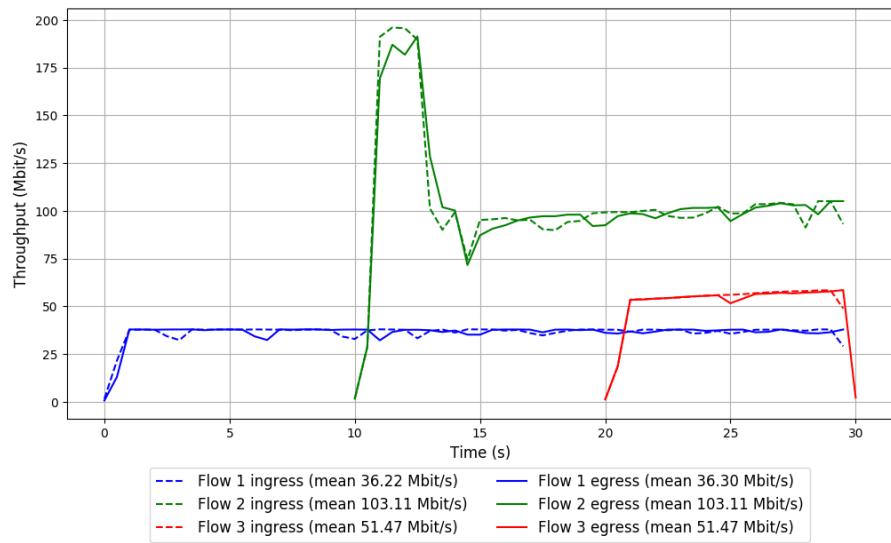
Run 7: Statistics of TCP Vegas

Start at: 2018-02-01 05:43:50

End at: 2018-02-01 05:44:20

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.15 Mbit/s
95th percentile per-packet one-way delay: 68.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 65.893 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.11 Mbit/s
95th percentile per-packet one-way delay: 70.193 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.47 Mbit/s
95th percentile per-packet one-way delay: 65.312 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link



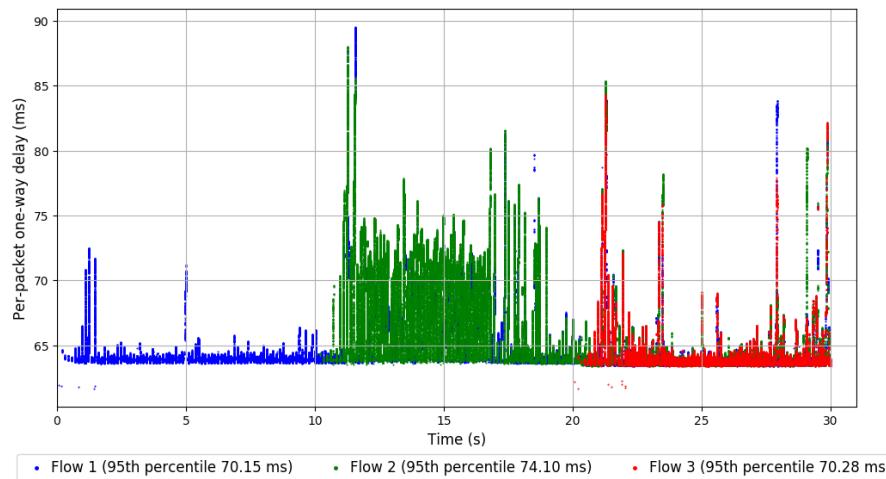
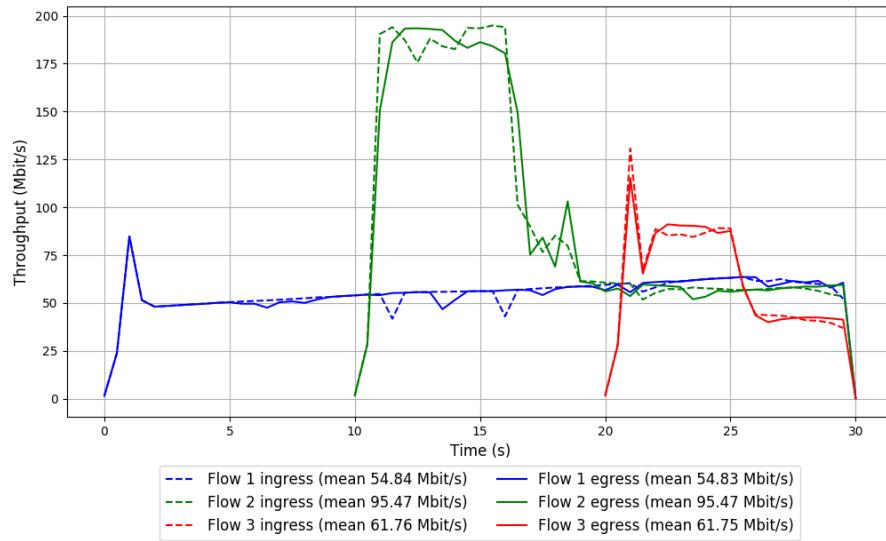
Run 8: Statistics of TCP Vegas

Start at: 2018-02-01 06:00:37

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

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.85 Mbit/s
95th percentile per-packet one-way delay: 72.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.83 Mbit/s
95th percentile per-packet one-way delay: 70.150 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 74.103 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.75 Mbit/s
95th percentile per-packet one-way delay: 70.280 ms
Loss rate: 0.01%
```

Run 8: Report of TCP Vegas — Data Link



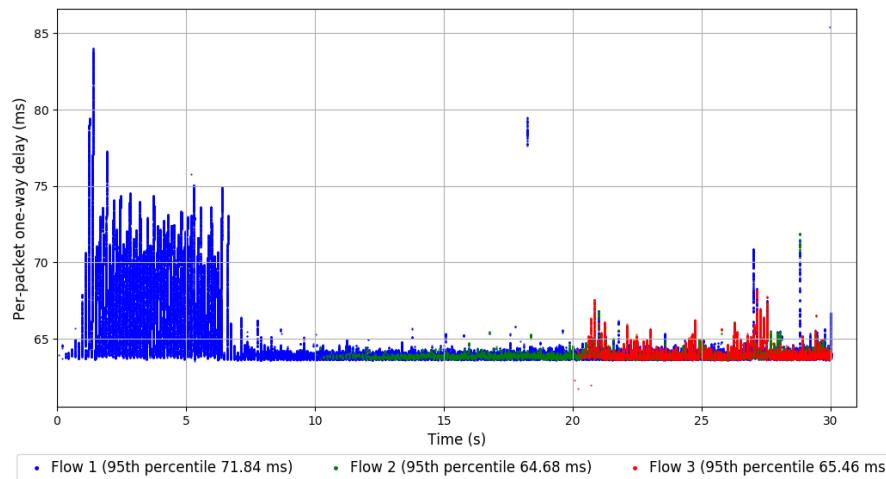
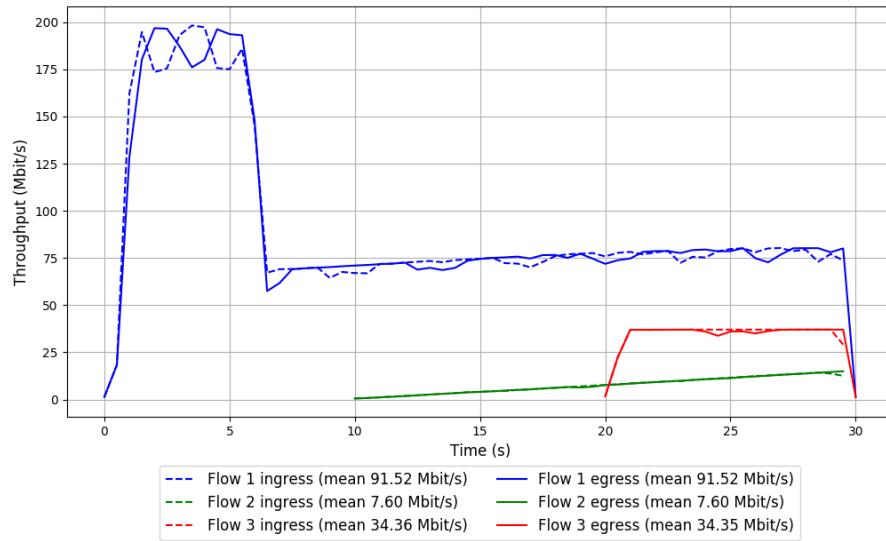
Run 9: Statistics of TCP Vegas

Start at: 2018-02-01 06:17:37

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

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.96 Mbit/s
95th percentile per-packet one-way delay: 71.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 71.843 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 64.683 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 65.457 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Vegas — Data Link



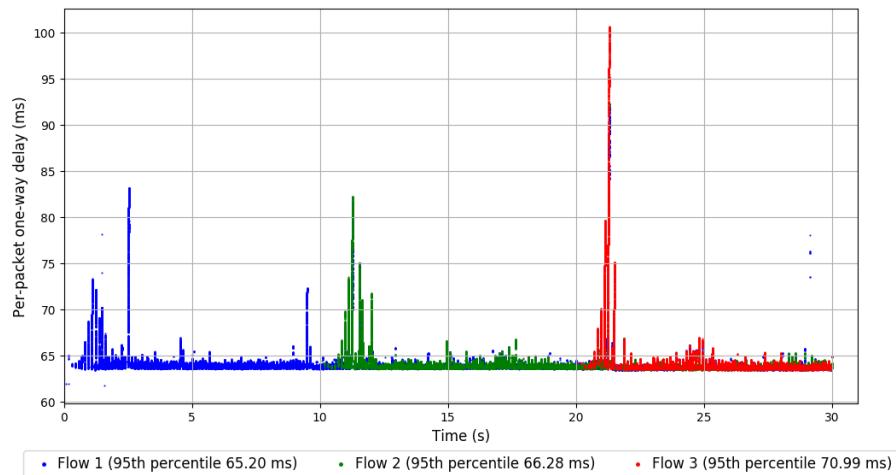
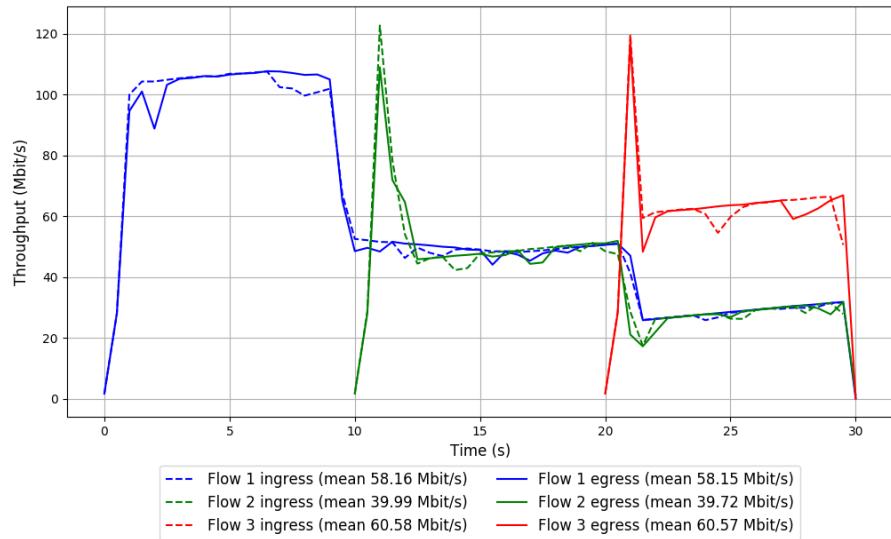
Run 10: Statistics of TCP Vegas

Start at: 2018-02-01 06:34:16

End at: 2018-02-01 06:34:46

```
# Below is generated by plot.py at 2018-02-01 09:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 65.933 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 58.15 Mbit/s
95th percentile per-packet one-way delay: 65.199 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.72 Mbit/s
95th percentile per-packet one-way delay: 66.278 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 70.992 ms
Loss rate: 0.01%
```

Run 10: Report of TCP Vegas — Data Link



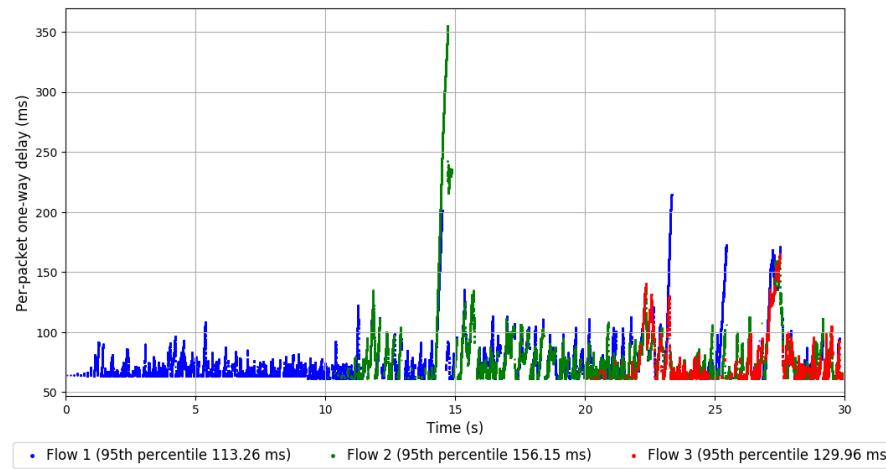
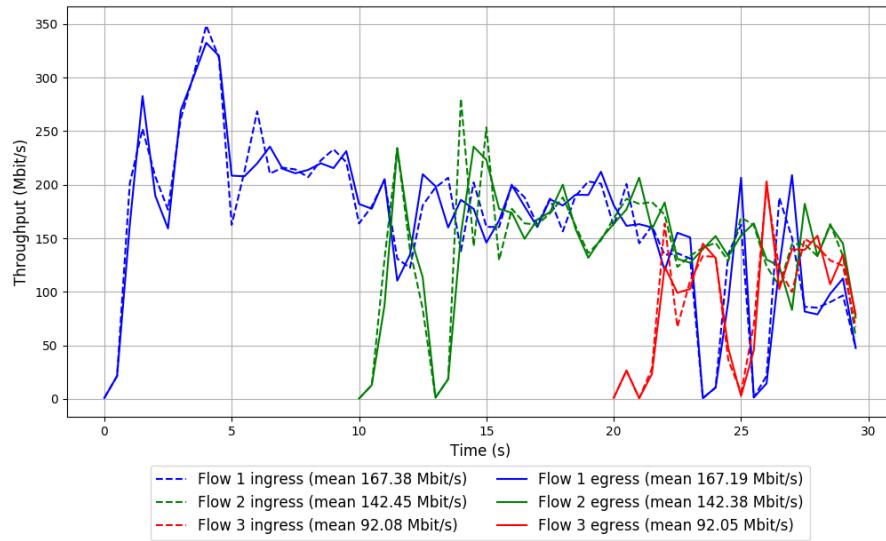
Run 1: Statistics of Verus

Start at: 2018-02-01 04:15:28

End at: 2018-02-01 04:15:58

```
# Below is generated by plot.py at 2018-02-01 09:23:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.41 Mbit/s
95th percentile per-packet one-way delay: 128.764 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 167.19 Mbit/s
95th percentile per-packet one-way delay: 113.257 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 142.38 Mbit/s
95th percentile per-packet one-way delay: 156.151 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 129.957 ms
Loss rate: 0.01%
```

Run 1: Report of Verus — Data Link



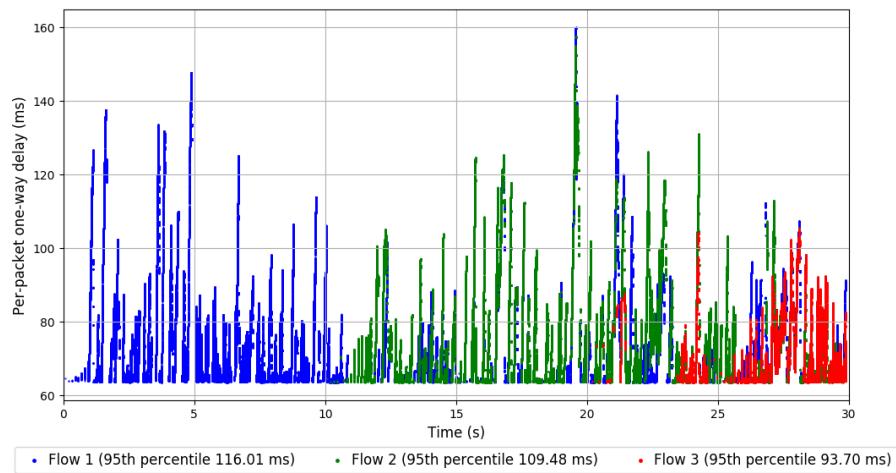
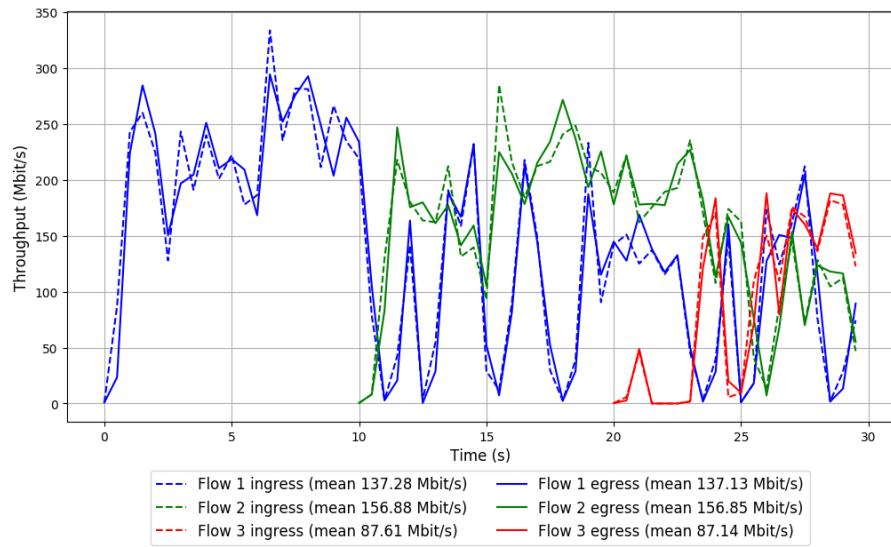
Run 2: Statistics of Verus

Start at: 2018-02-01 04:31:53

End at: 2018-02-01 04:32:23

```
# Below is generated by plot.py at 2018-02-01 09:24:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.50 Mbit/s
95th percentile per-packet one-way delay: 109.688 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 137.13 Mbit/s
95th percentile per-packet one-way delay: 116.009 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 156.85 Mbit/s
95th percentile per-packet one-way delay: 109.482 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 93.702 ms
Loss rate: 0.60%
```

Run 2: Report of Verus — Data Link



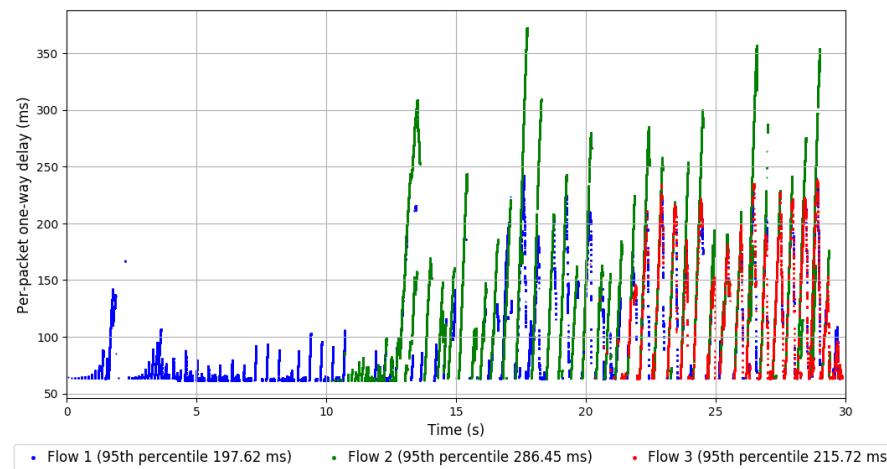
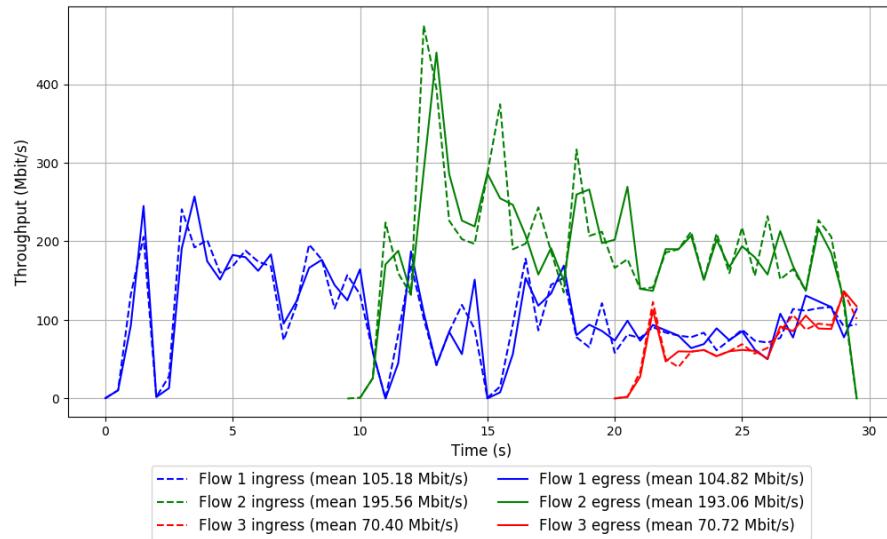
Run 3: Statistics of Verus

Start at: 2018-02-01 04:48:03

End at: 2018-02-01 04:48:33

```
# Below is generated by plot.py at 2018-02-01 09:24:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.50 Mbit/s
95th percentile per-packet one-way delay: 257.140 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 104.82 Mbit/s
95th percentile per-packet one-way delay: 197.621 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 193.06 Mbit/s
95th percentile per-packet one-way delay: 286.452 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 70.72 Mbit/s
95th percentile per-packet one-way delay: 215.715 ms
Loss rate: 0.58%
```

Run 3: Report of Verus — Data Link



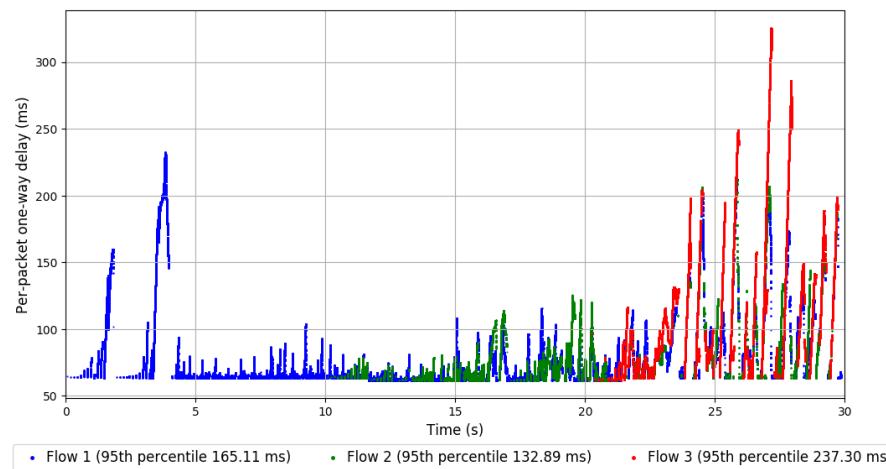
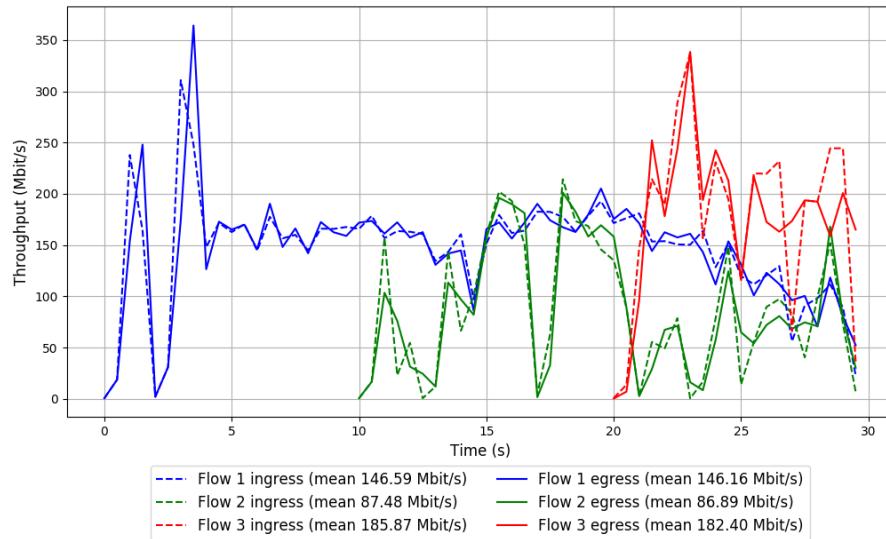
Run 4: Statistics of Verus

Start at: 2018-02-01 05:04:16

End at: 2018-02-01 05:04:46

```
# Below is generated by plot.py at 2018-02-01 09:24:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.44 Mbit/s
95th percentile per-packet one-way delay: 186.109 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 146.16 Mbit/s
95th percentile per-packet one-way delay: 165.113 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 132.893 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 182.40 Mbit/s
95th percentile per-packet one-way delay: 237.299 ms
Loss rate: 0.55%
```

Run 4: Report of Verus — Data Link



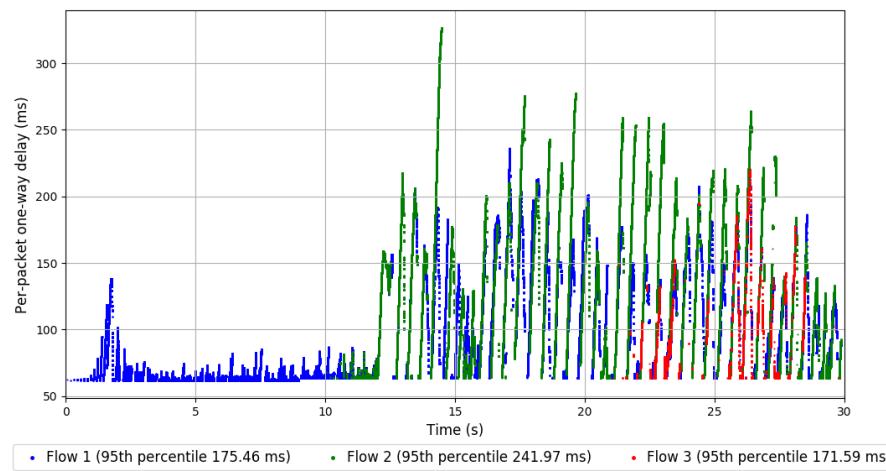
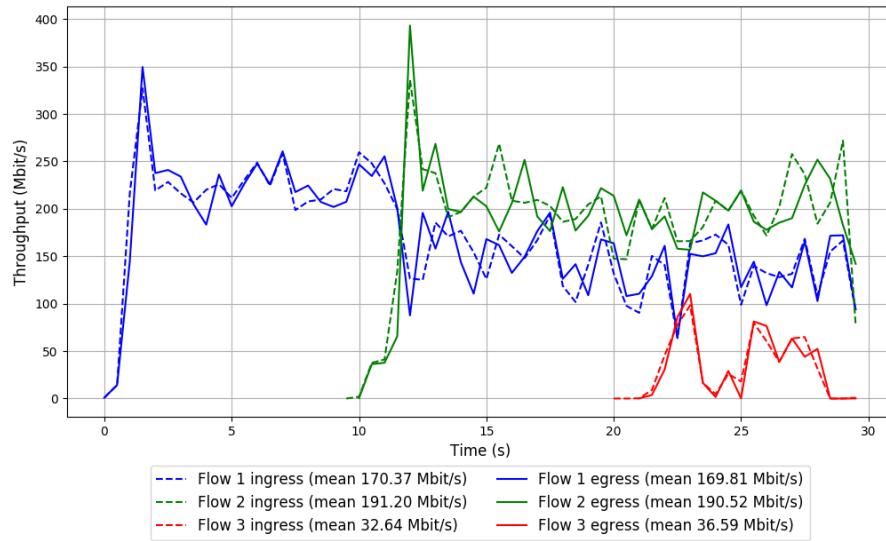
Run 5: Statistics of Verus

Start at: 2018-02-01 05:20:38

End at: 2018-02-01 05:21:08

```
# Below is generated by plot.py at 2018-02-01 09:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.08 Mbit/s
95th percentile per-packet one-way delay: 209.566 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 169.81 Mbit/s
95th percentile per-packet one-way delay: 175.460 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 190.52 Mbit/s
95th percentile per-packet one-way delay: 241.968 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 171.589 ms
Loss rate: 0.17%
```

Run 5: Report of Verus — Data Link



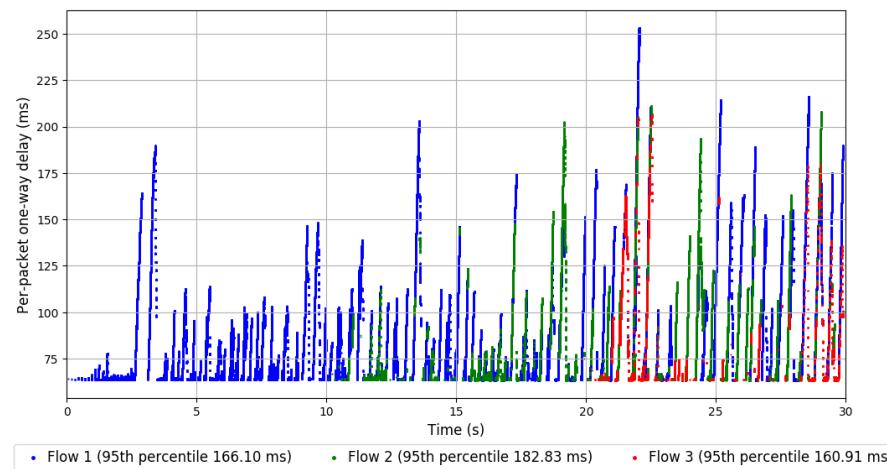
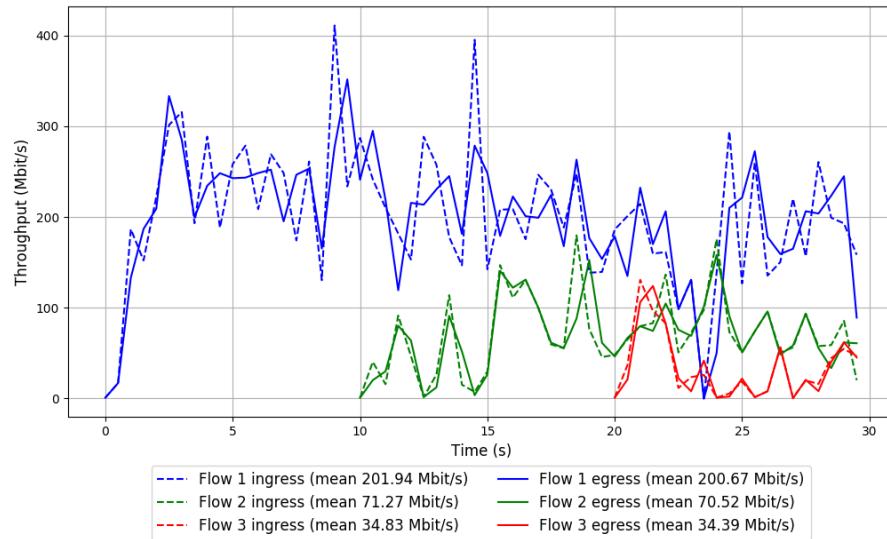
Run 6: Statistics of Verus

Start at: 2018-02-01 05:37:13

End at: 2018-02-01 05:37:43

```
# Below is generated by plot.py at 2018-02-01 09:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.83 Mbit/s
95th percentile per-packet one-way delay: 168.663 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 200.67 Mbit/s
95th percentile per-packet one-way delay: 166.098 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 70.52 Mbit/s
95th percentile per-packet one-way delay: 182.826 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 160.905 ms
Loss rate: 1.26%
```

Run 6: Report of Verus — Data Link



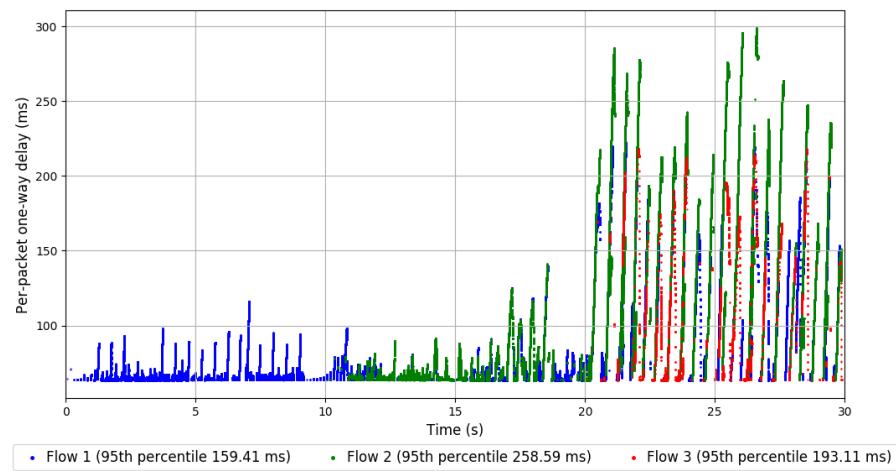
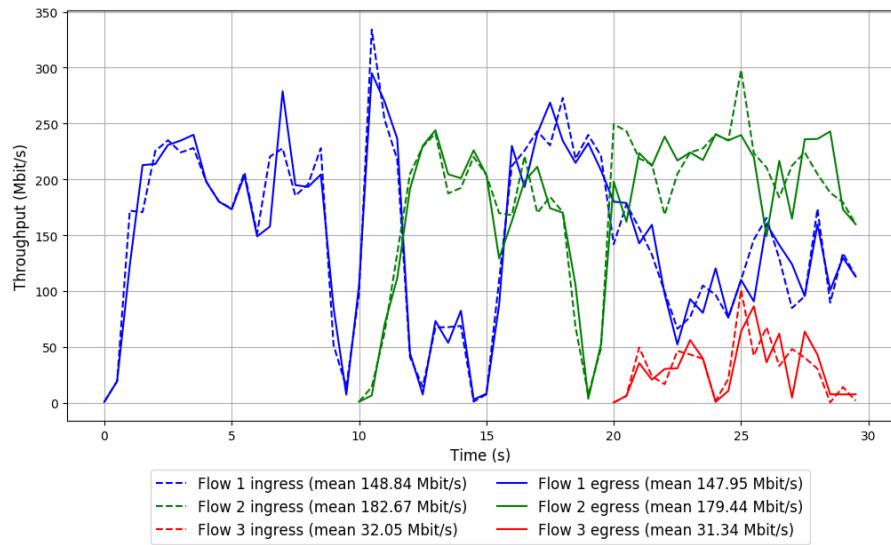
Run 7: Statistics of Verus

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

End at: 2018-02-01 05:54:32

```
# Below is generated by plot.py at 2018-02-01 09:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.82 Mbit/s
95th percentile per-packet one-way delay: 219.992 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 147.95 Mbit/s
95th percentile per-packet one-way delay: 159.408 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 179.44 Mbit/s
95th percentile per-packet one-way delay: 258.587 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 193.114 ms
Loss rate: 2.25%
```

Run 7: Report of Verus — Data Link



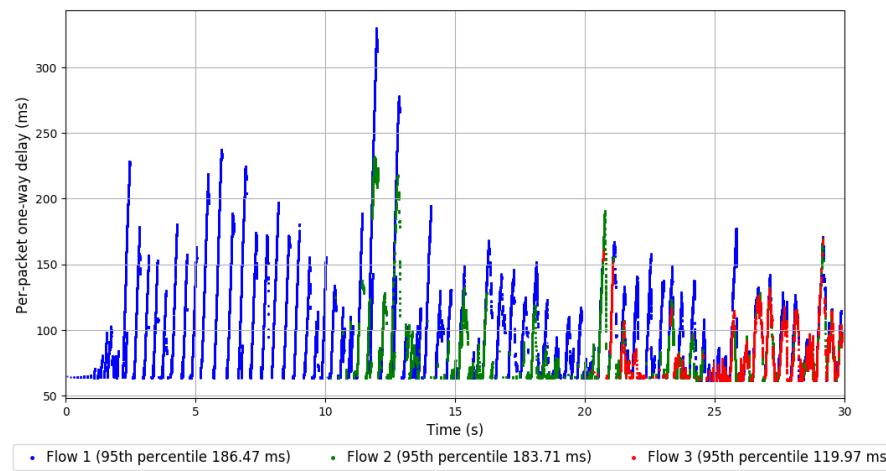
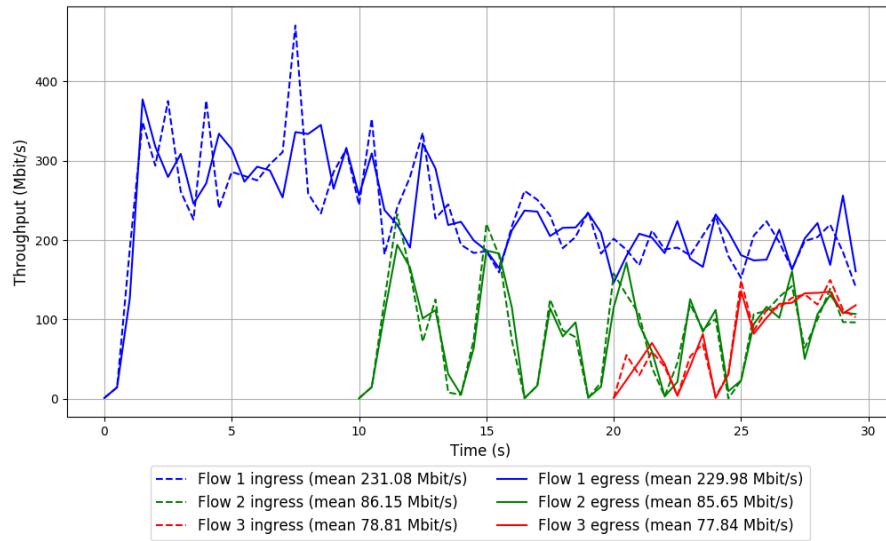
Run 8: Statistics of Verus

Start at: 2018-02-01 06:10:53

End at: 2018-02-01 06:11:23

```
# Below is generated by plot.py at 2018-02-01 09:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.52 Mbit/s
95th percentile per-packet one-way delay: 182.488 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 229.98 Mbit/s
95th percentile per-packet one-way delay: 186.472 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 85.65 Mbit/s
95th percentile per-packet one-way delay: 183.708 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 77.84 Mbit/s
95th percentile per-packet one-way delay: 119.966 ms
Loss rate: 1.24%
```

Run 8: Report of Verus — Data Link



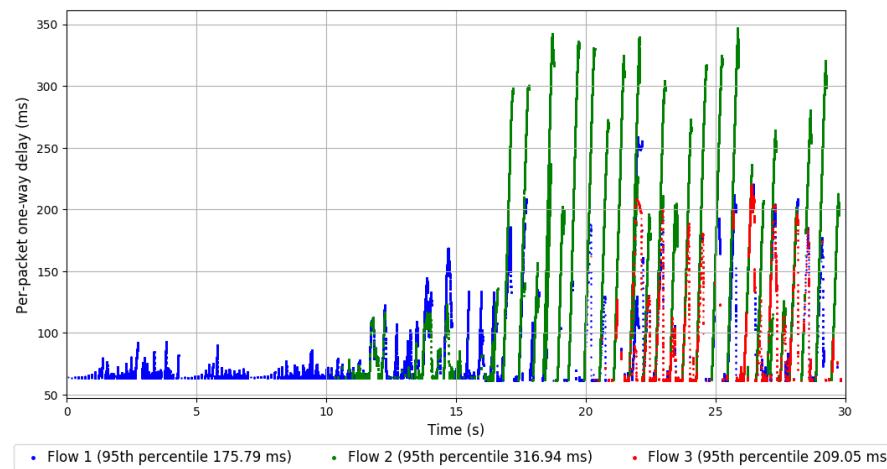
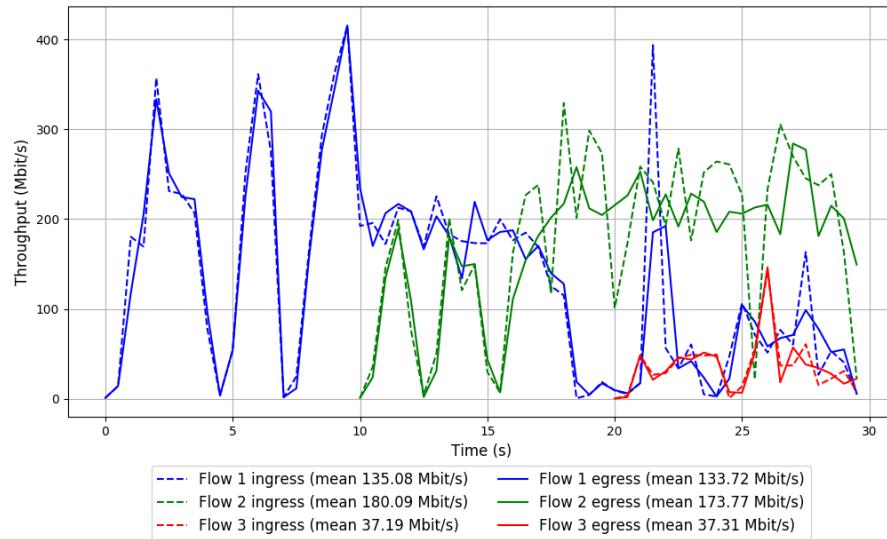
Run 9: Statistics of Verus

Start at: 2018-02-01 06:27:31

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

```
# Below is generated by plot.py at 2018-02-01 09:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.72 Mbit/s
95th percentile per-packet one-way delay: 293.955 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 133.72 Mbit/s
95th percentile per-packet one-way delay: 175.792 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 173.77 Mbit/s
95th percentile per-packet one-way delay: 316.944 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 209.047 ms
Loss rate: 0.70%
```

Run 9: Report of Verus — Data Link



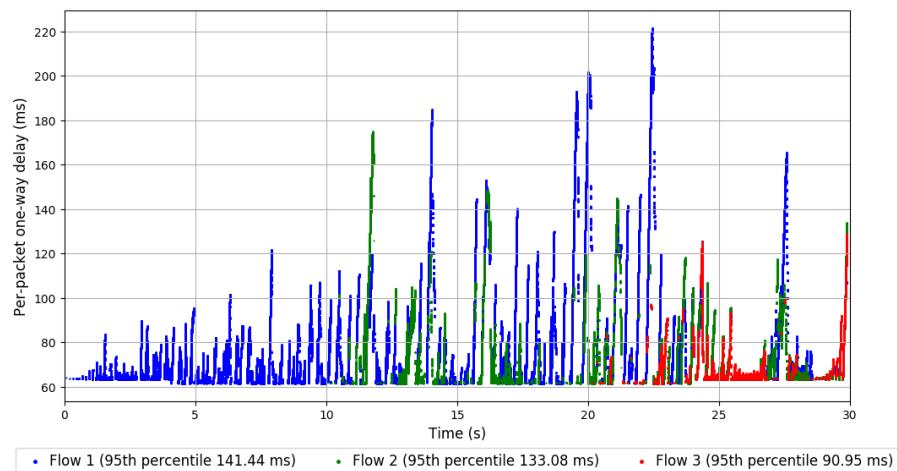
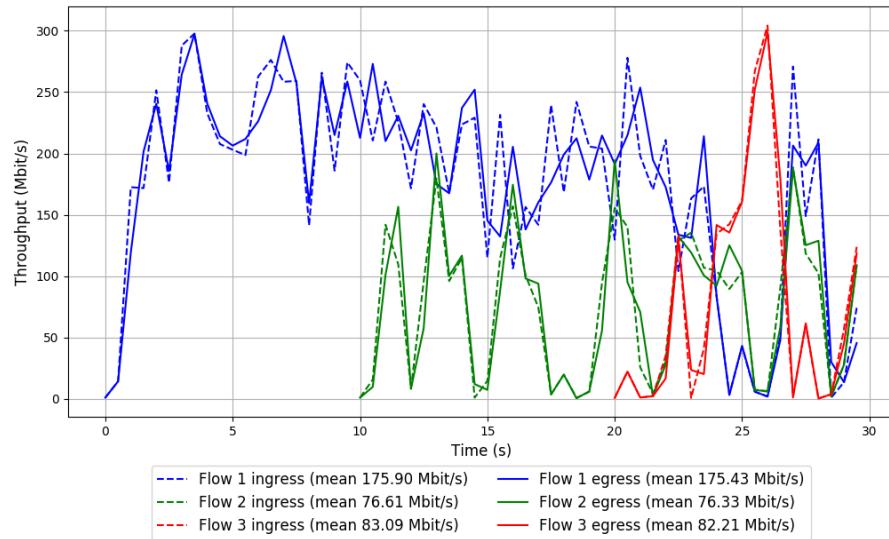
Run 10: Statistics of Verus

Start at: 2018-02-01 06:44:13

End at: 2018-02-01 06:44:43

```
# Below is generated by plot.py at 2018-02-01 09:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.19 Mbit/s
95th percentile per-packet one-way delay: 135.402 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 175.43 Mbit/s
95th percentile per-packet one-way delay: 141.437 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 76.33 Mbit/s
95th percentile per-packet one-way delay: 133.082 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 90.947 ms
Loss rate: 1.06%
```

Run 10: Report of Verus — Data Link



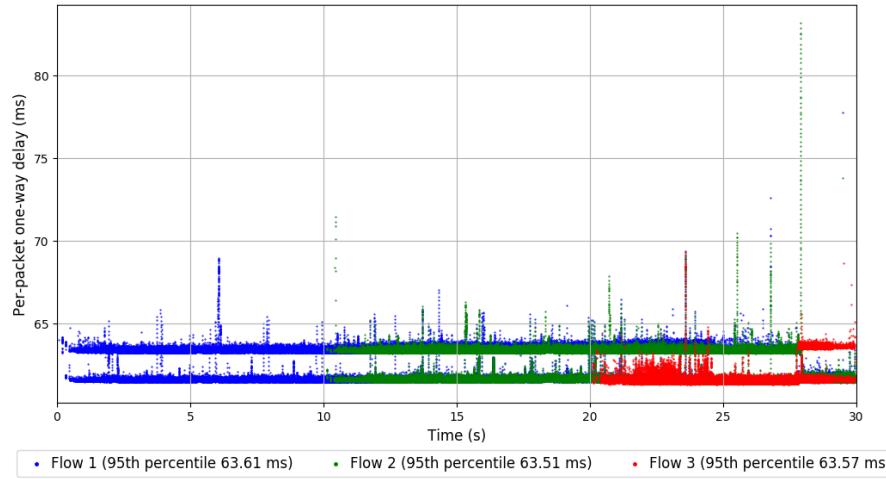
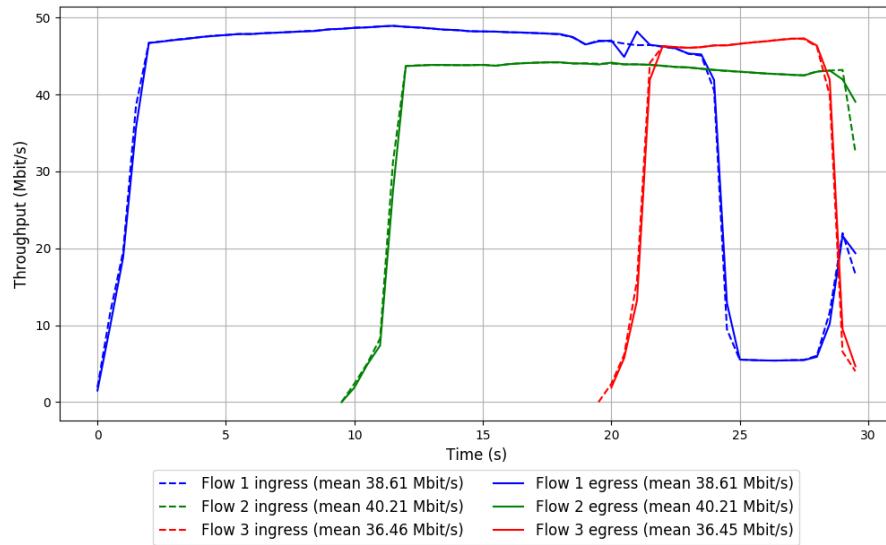
Run 1: Statistics of Copa

Start at: 2018-02-01 04:06:19

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

```
# Below is generated by plot.py at 2018-02-01 09:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.57 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.21 Mbit/s
95th percentile per-packet one-way delay: 63.513 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 63.571 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



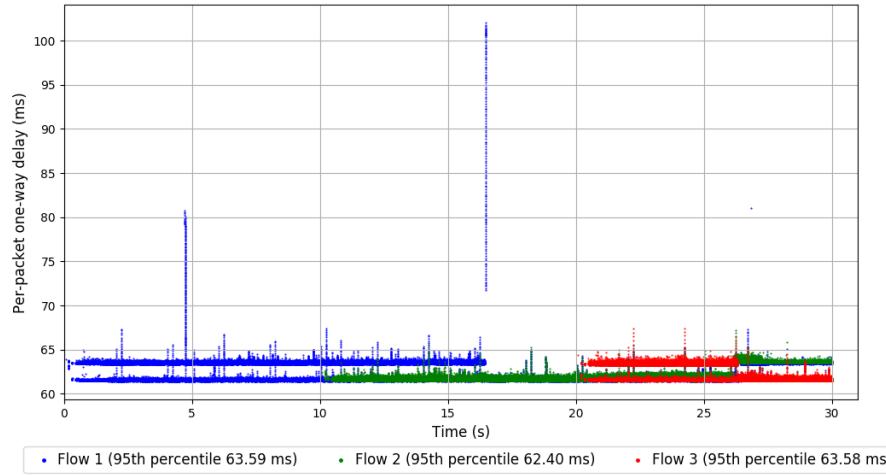
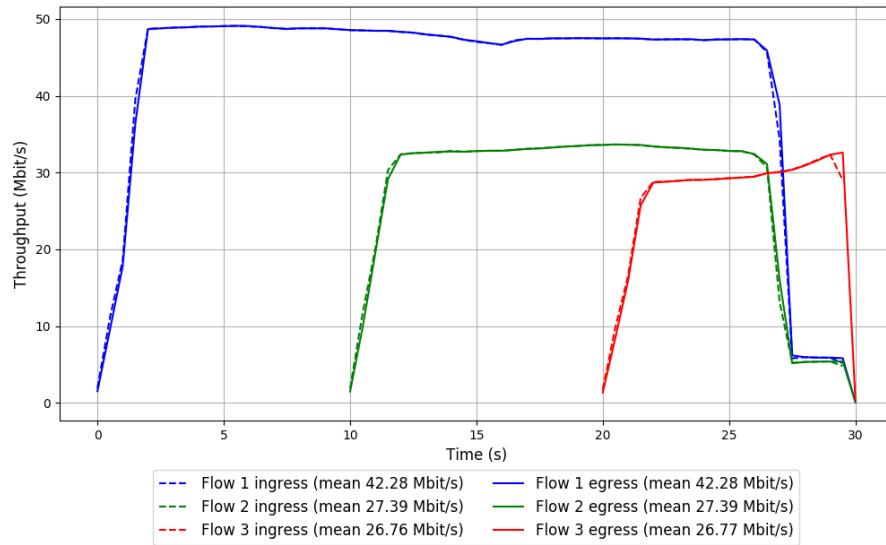
Run 2: Statistics of Copa

Start at: 2018-02-01 04:22:51

End at: 2018-02-01 04:23:21

```
# Below is generated by plot.py at 2018-02-01 09:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.39 Mbit/s
95th percentile per-packet one-way delay: 63.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 63.595 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 62.403 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link



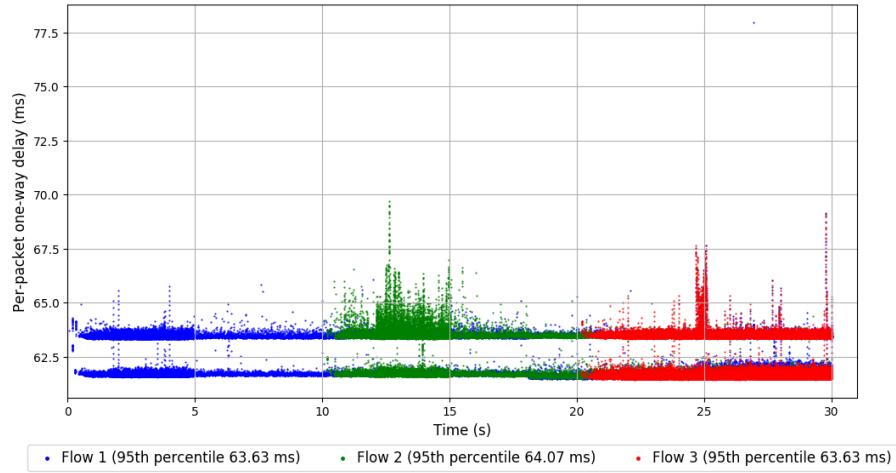
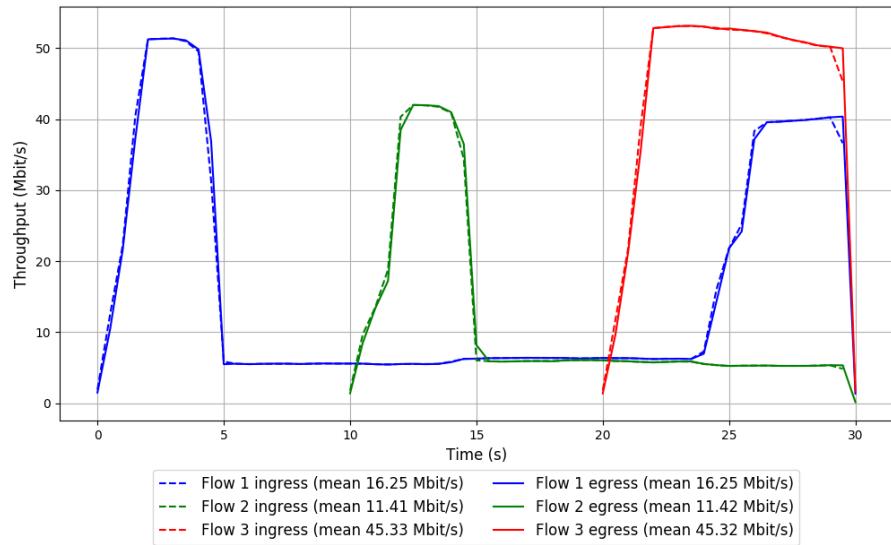
Run 3: Statistics of Copa

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

End at: 2018-02-01 04:39:39

```
# Below is generated by plot.py at 2018-02-01 09:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.25 Mbit/s
95th percentile per-packet one-way delay: 63.633 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 64.067 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 63.630 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link



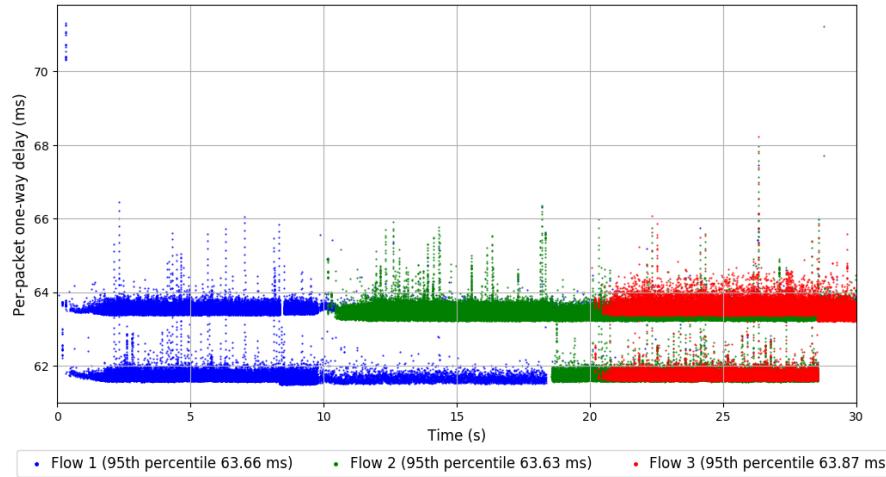
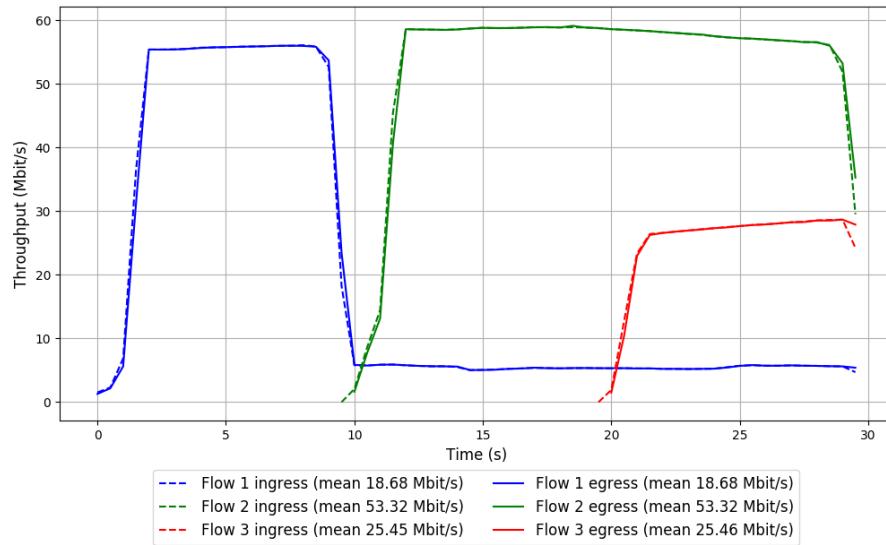
Run 4: Statistics of Copa

Start at: 2018-02-01 04:55:19

End at: 2018-02-01 04:55:49

```
# Below is generated by plot.py at 2018-02-01 09:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.68 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 63.660 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 63.630 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.46 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link



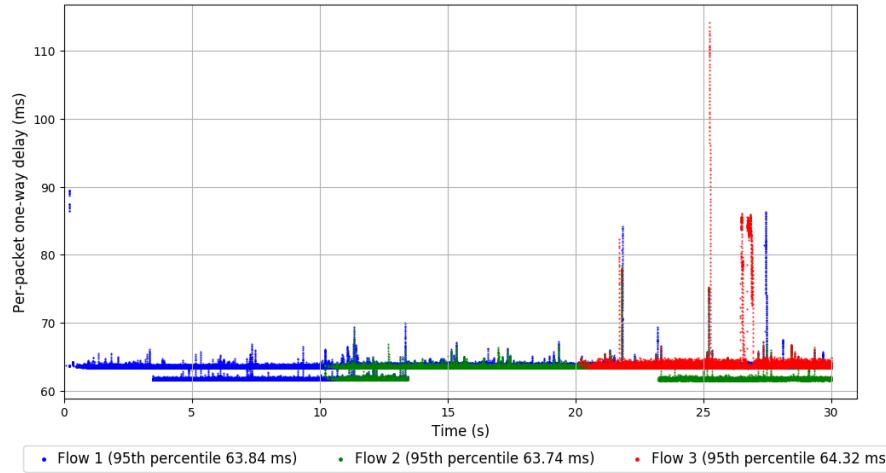
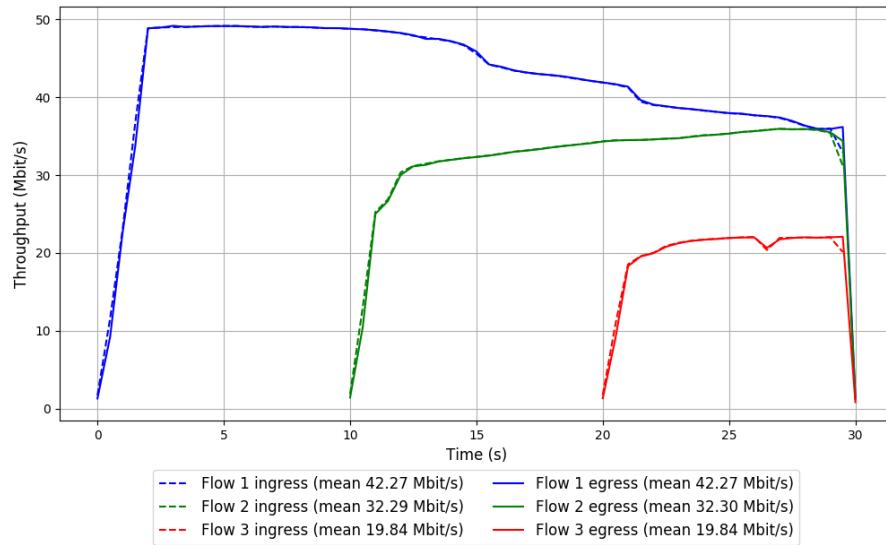
Run 5: Statistics of Copa

Start at: 2018-02-01 05:11:34

End at: 2018-02-01 05:12:04

```
# Below is generated by plot.py at 2018-02-01 09:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 63.849 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.84 Mbit/s
95th percentile per-packet one-way delay: 64.319 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link



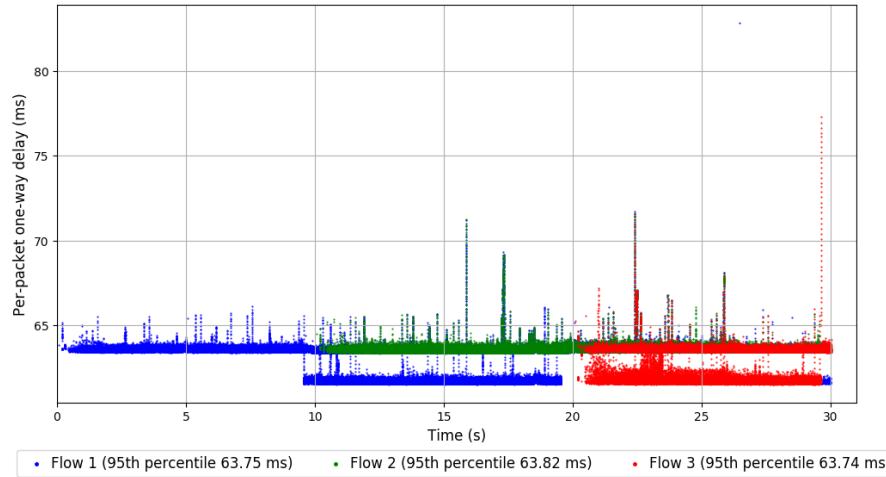
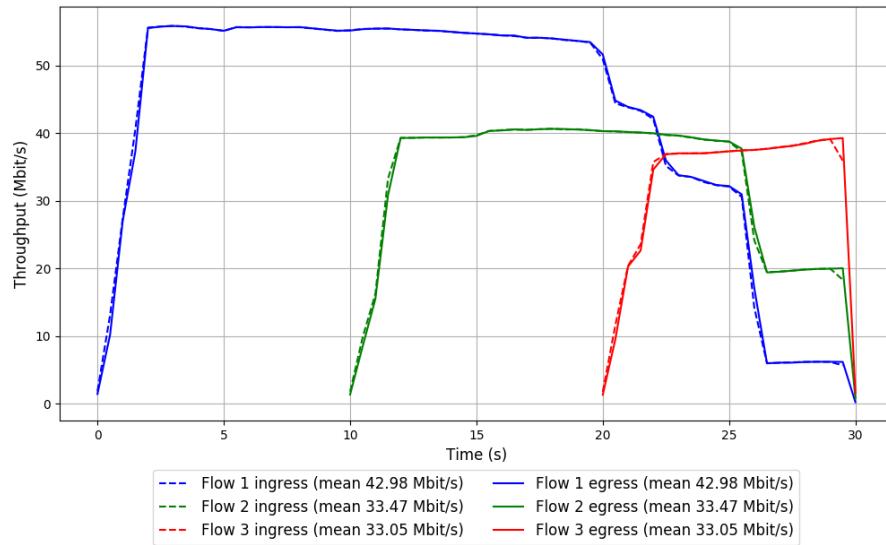
Run 6: Statistics of Copa

Start at: 2018-02-01 05:27:58

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

```
# Below is generated by plot.py at 2018-02-01 09:29:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.23 Mbit/s
95th percentile per-packet one-way delay: 63.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 63.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.05 Mbit/s
95th percentile per-packet one-way delay: 63.738 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



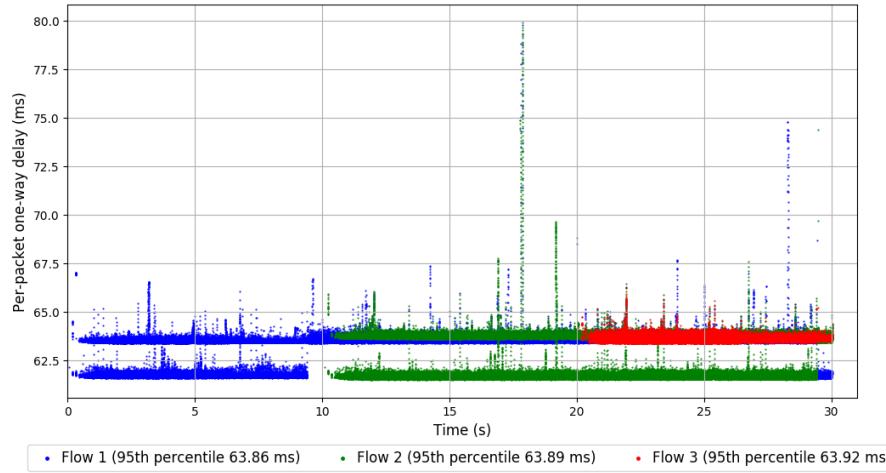
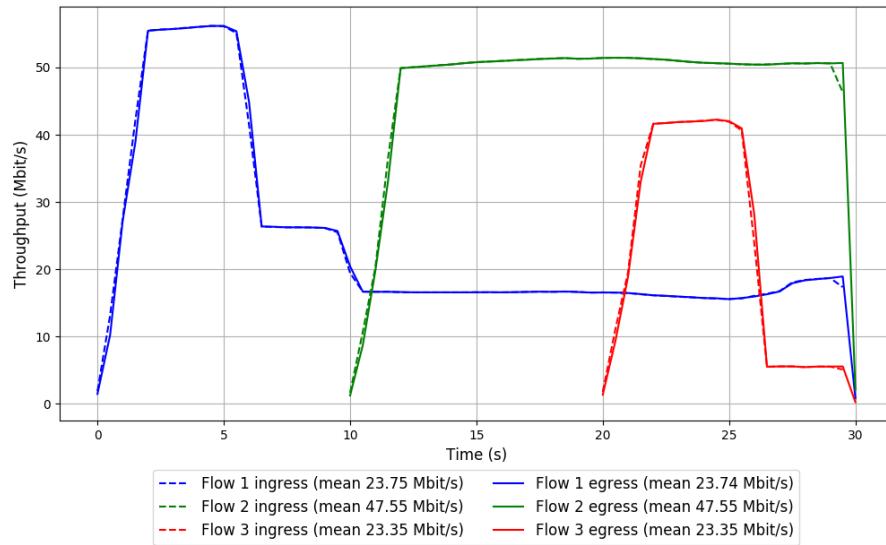
Run 7: Statistics of Copa

Start at: 2018-02-01 05:44:38

End at: 2018-02-01 05:45:08

```
# Below is generated by plot.py at 2018-02-01 09:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.11 Mbit/s
95th percentile per-packet one-way delay: 63.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 63.856 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 63.888 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 63.919 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link



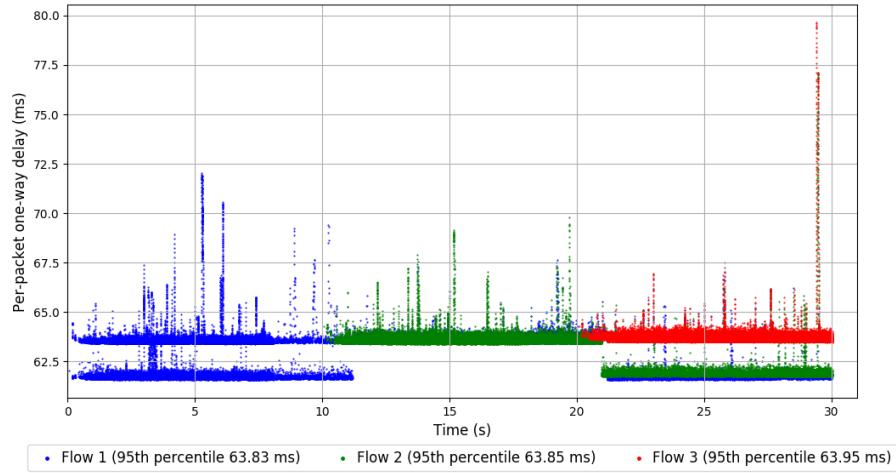
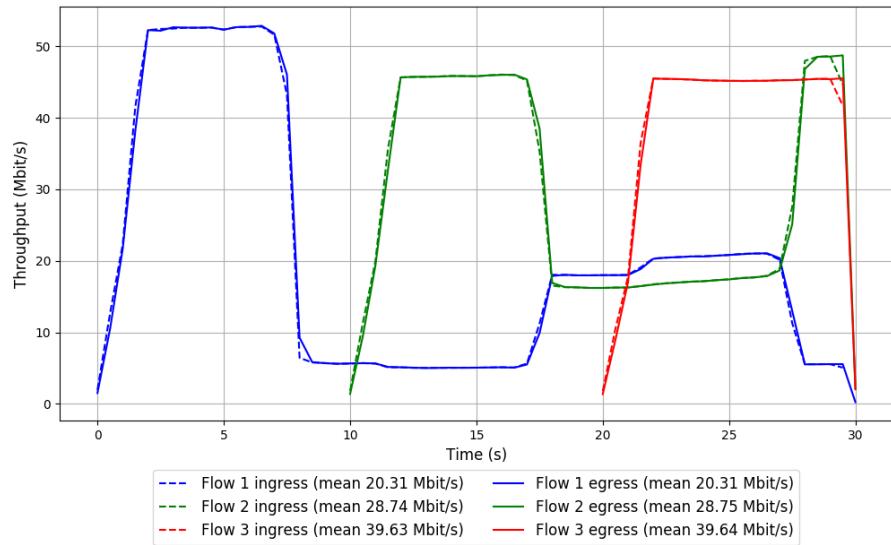
Run 8: Statistics of Copa

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

End at: 2018-02-01 06:01:56

```
# Below is generated by plot.py at 2018-02-01 09:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 63.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 63.834 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 63.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 63.949 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



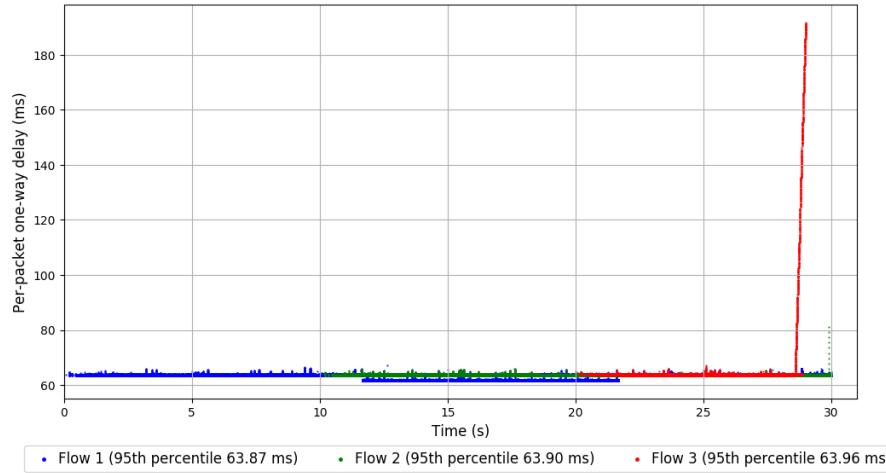
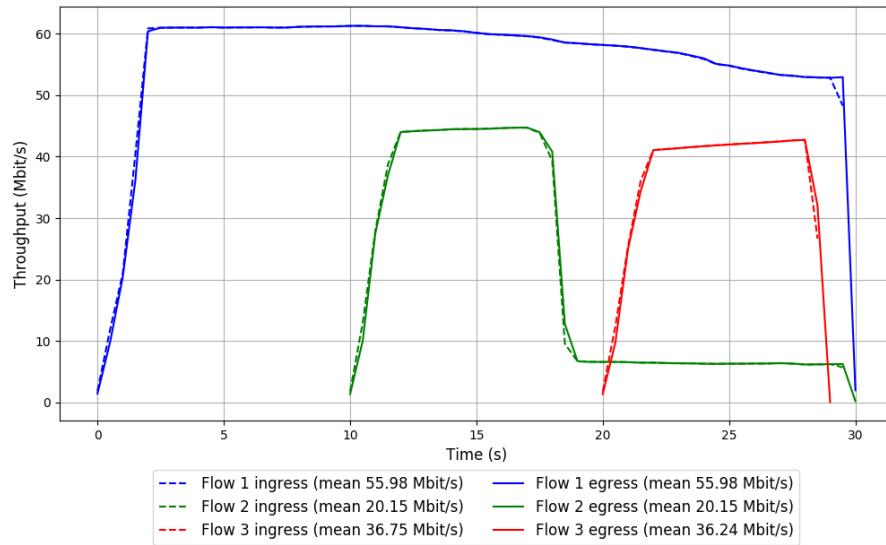
Run 9: Statistics of Copa

Start at: 2018-02-01 06:18:26

End at: 2018-02-01 06:18:56

```
# Below is generated by plot.py at 2018-02-01 09:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.20 Mbit/s
95th percentile per-packet one-way delay: 63.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.15 Mbit/s
95th percentile per-packet one-way delay: 63.898 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 63.957 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link



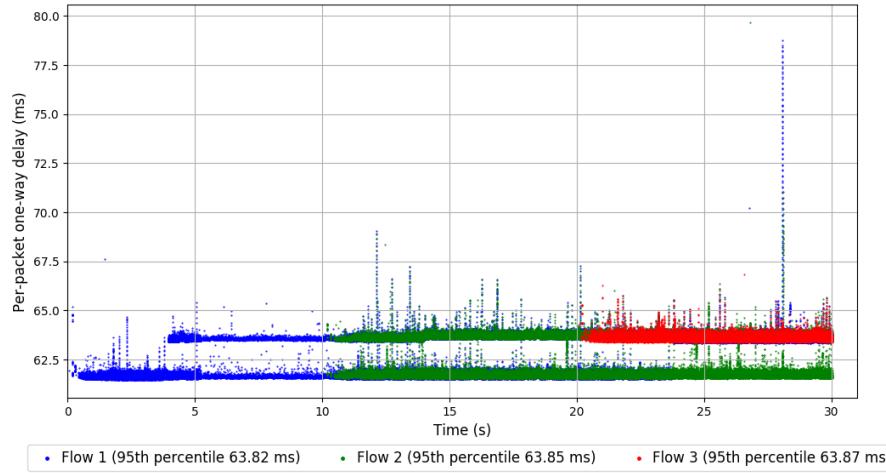
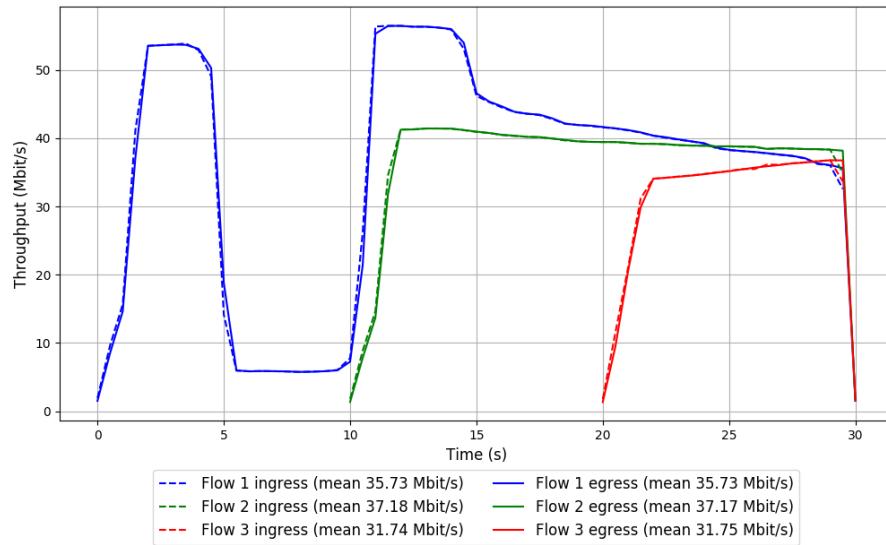
Run 10: Statistics of Copa

Start at: 2018-02-01 06:35:03

End at: 2018-02-01 06:35:33

```
# Below is generated by plot.py at 2018-02-01 09:30:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.00 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 63.817 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 63.868 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link

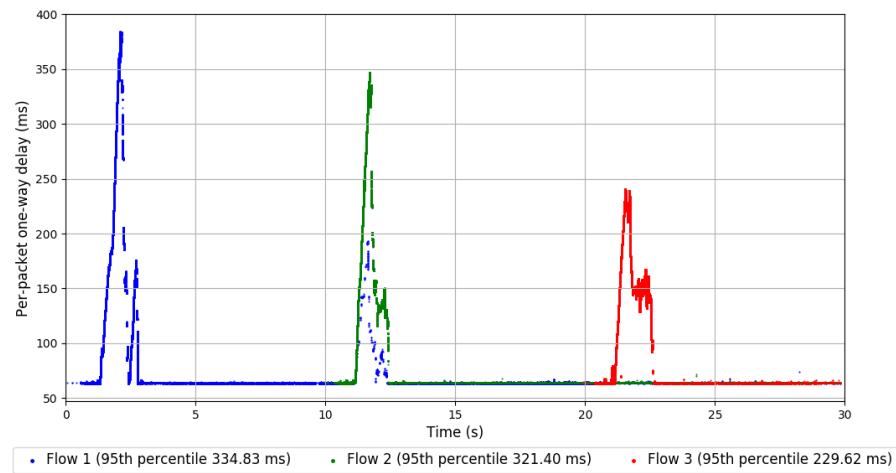
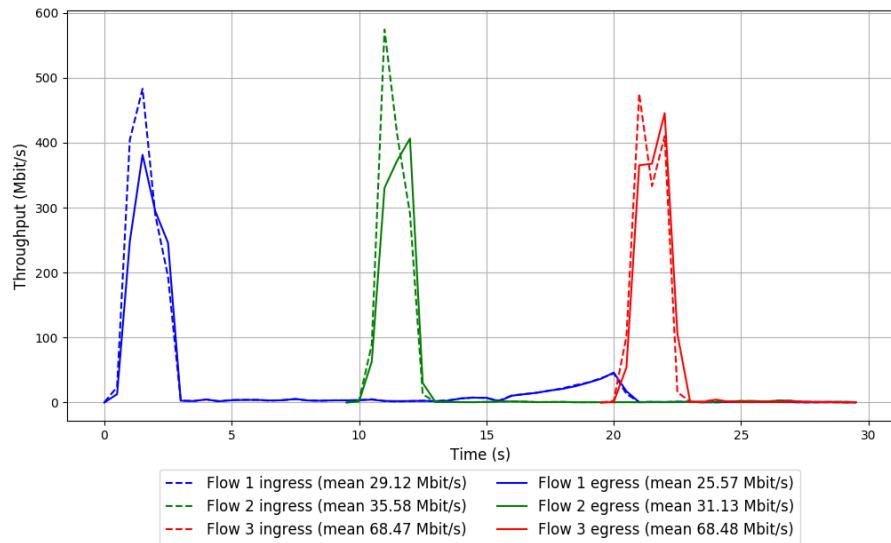


```
Run 1: Statistics of FillP

Start at: 2018-02-01 04:12:08
End at: 2018-02-01 04:12:38

# Below is generated by plot.py at 2018-02-01 09:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.17 Mbit/s
95th percentile per-packet one-way delay: 298.158 ms
Loss rate: 8.62%
-- Flow 1:
Average throughput: 25.57 Mbit/s
95th percentile per-packet one-way delay: 334.827 ms
Loss rate: 12.19%
-- Flow 2:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 321.402 ms
Loss rate: 12.50%
-- Flow 3:
Average throughput: 68.48 Mbit/s
95th percentile per-packet one-way delay: 229.617 ms
Loss rate: 0.00%
```

Run 1: Report of FillP — Data Link



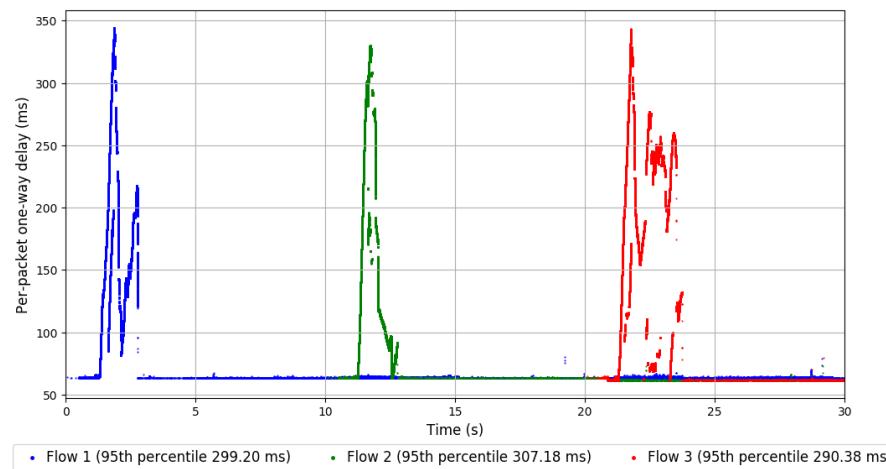
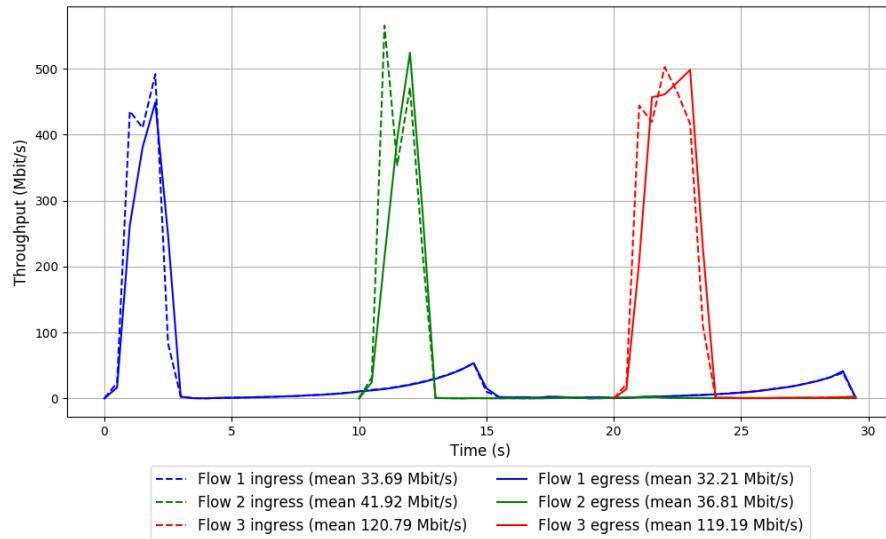
Run 2: Statistics of FillP

Start at: 2018-02-01 04:28:36

End at: 2018-02-01 04:29:06

```
# Below is generated by plot.py at 2018-02-01 09:32:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 298.621 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 299.204 ms
Loss rate: 4.39%
-- Flow 2:
Average throughput: 36.81 Mbit/s
95th percentile per-packet one-way delay: 307.178 ms
Loss rate: 12.20%
-- Flow 3:
Average throughput: 119.19 Mbit/s
95th percentile per-packet one-way delay: 290.378 ms
Loss rate: 1.36%
```

Run 2: Report of FillP — Data Link



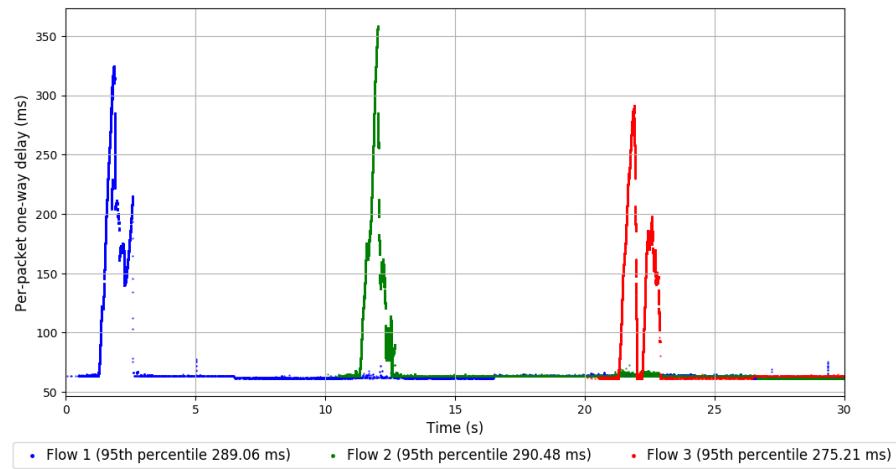
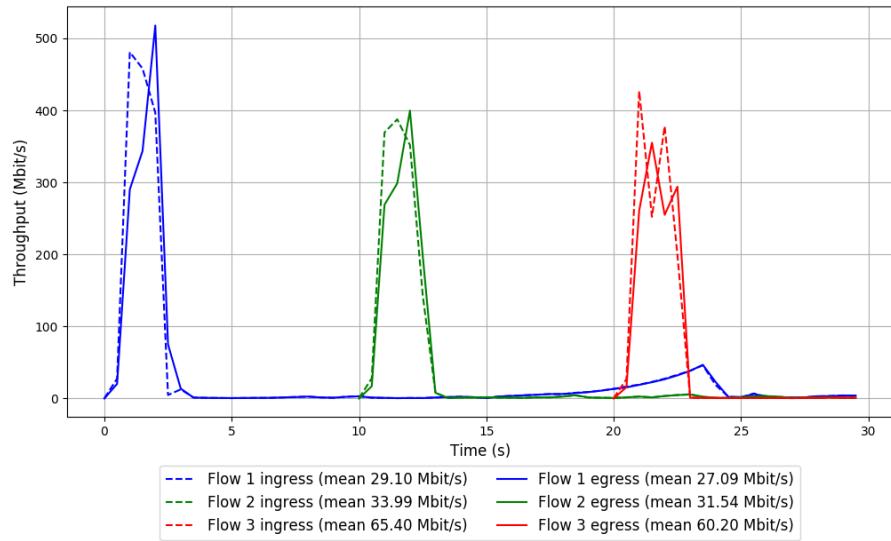
Run 3: Statistics of FillP

Start at: 2018-02-01 04:44:51

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

```
# Below is generated by plot.py at 2018-02-01 09:32:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.02 Mbit/s
95th percentile per-packet one-way delay: 278.923 ms
Loss rate: 7.30%
-- Flow 1:
Average throughput: 27.09 Mbit/s
95th percentile per-packet one-way delay: 289.056 ms
Loss rate: 6.89%
-- Flow 2:
Average throughput: 31.54 Mbit/s
95th percentile per-packet one-way delay: 290.480 ms
Loss rate: 7.22%
-- Flow 3:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 275.206 ms
Loss rate: 7.94%
```

Run 3: Report of FillP — Data Link



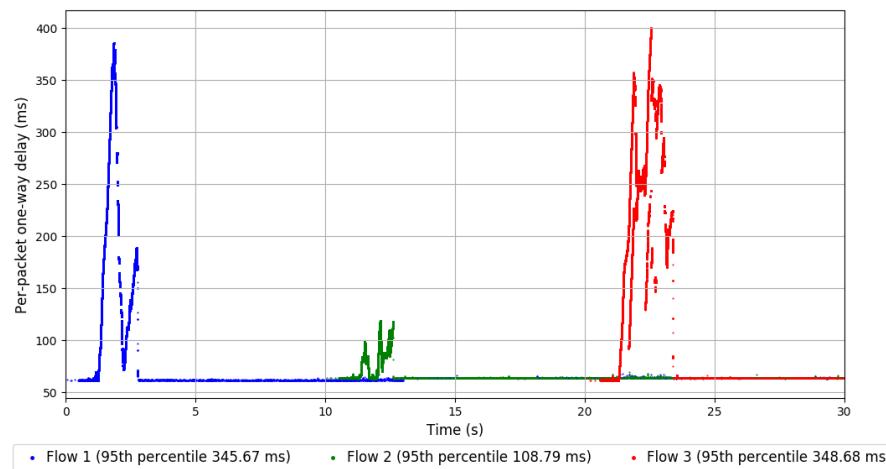
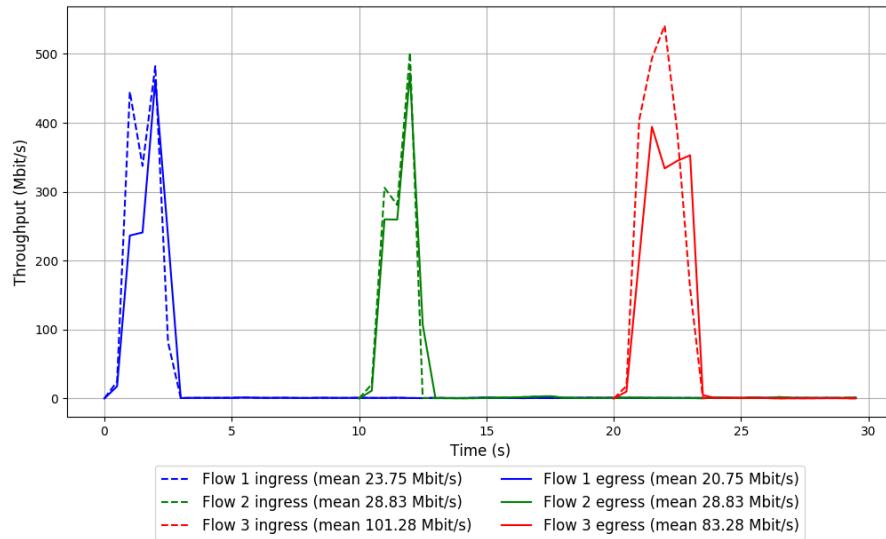
Run 4: Statistics of FillP

Start at: 2018-02-01 05:01:04

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

```
# Below is generated by plot.py at 2018-02-01 09:32:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.52 Mbit/s
95th percentile per-packet one-way delay: 341.490 ms
Loss rate: 11.71%
-- Flow 1:
Average throughput: 20.75 Mbit/s
95th percentile per-packet one-way delay: 345.674 ms
Loss rate: 12.61%
-- Flow 2:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 108.789 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.28 Mbit/s
95th percentile per-packet one-way delay: 348.676 ms
Loss rate: 17.78%
```

Run 4: Report of FillP — Data Link



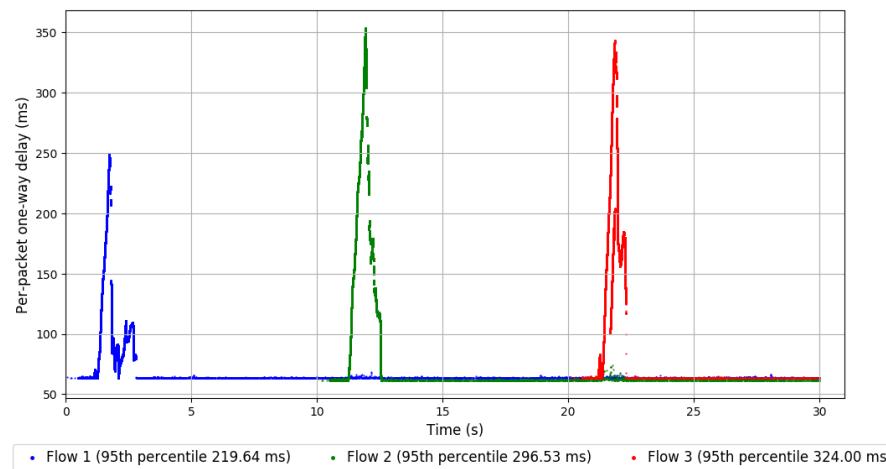
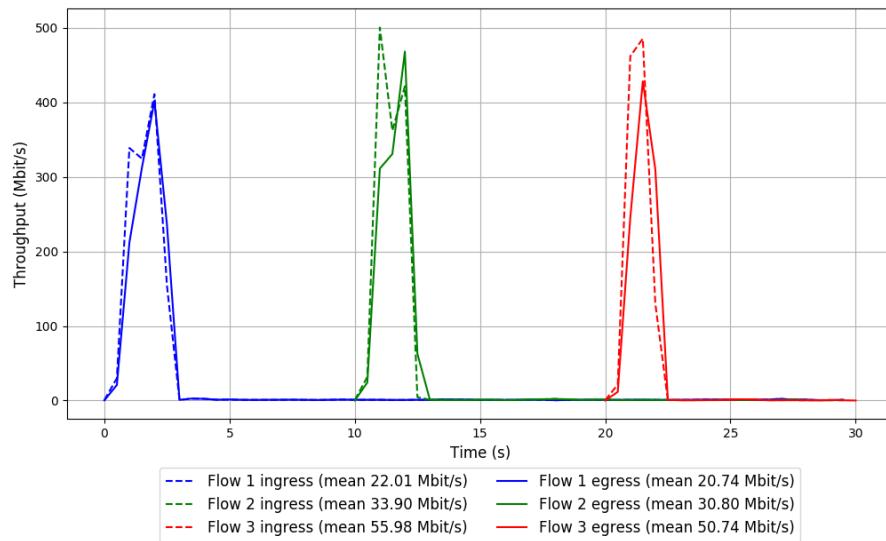
Run 5: Statistics of FillP

Start at: 2018-02-01 05:17:29

End at: 2018-02-01 05:17:59

```
# Below is generated by plot.py at 2018-02-01 09:32:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.04 Mbit/s
95th percentile per-packet one-way delay: 292.568 ms
Loss rate: 8.04%
-- Flow 1:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 219.641 ms
Loss rate: 5.76%
-- Flow 2:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 296.526 ms
Loss rate: 9.17%
-- Flow 3:
Average throughput: 50.74 Mbit/s
95th percentile per-packet one-way delay: 323.996 ms
Loss rate: 9.36%
```

Run 5: Report of FillP — Data Link



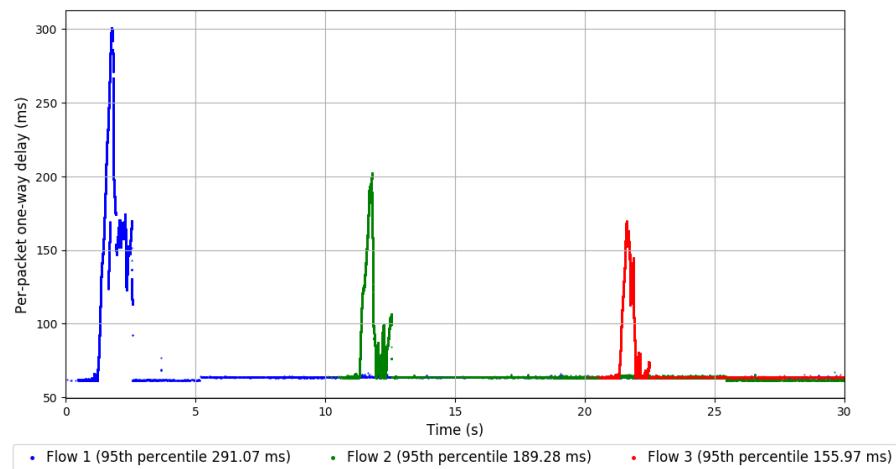
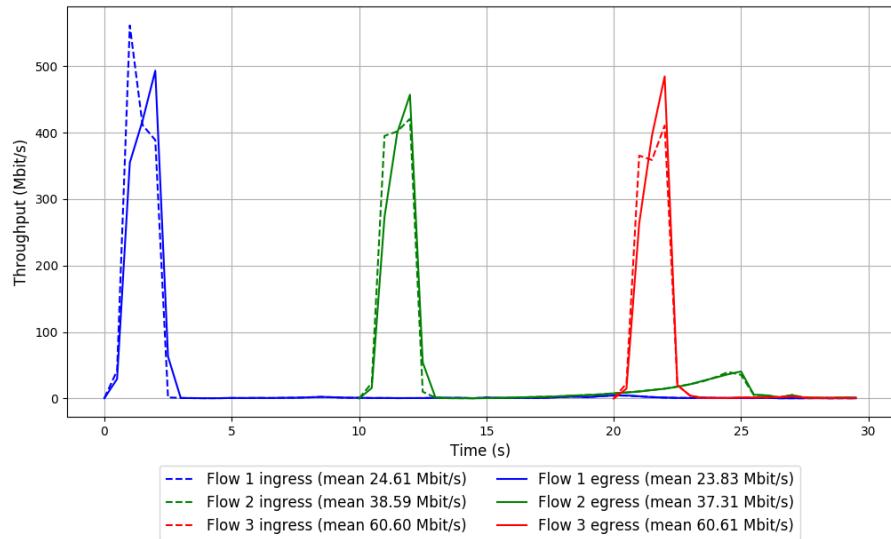
Run 6: Statistics of FillP

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

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

```
# Below is generated by plot.py at 2018-02-01 09:32:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.70 Mbit/s
95th percentile per-packet one-way delay: 202.371 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 291.070 ms
Loss rate: 3.17%
-- Flow 2:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 189.279 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 60.61 Mbit/s
95th percentile per-packet one-way delay: 155.967 ms
Loss rate: 0.00%
```

Run 6: Report of FillP — Data Link



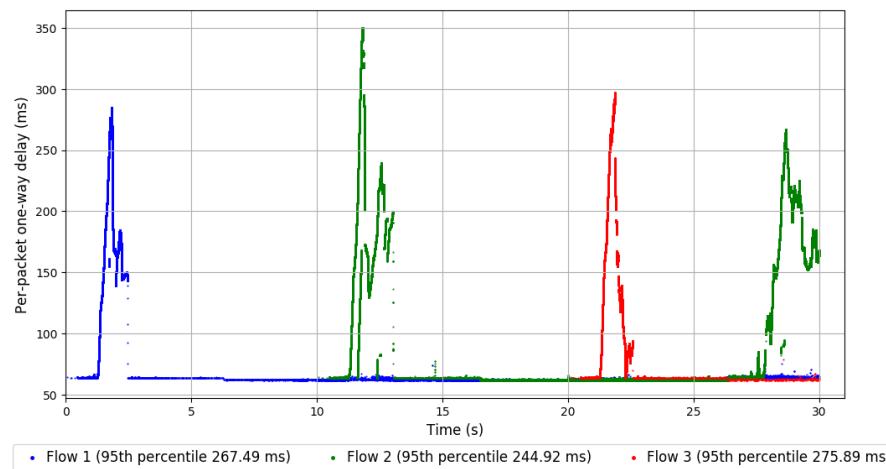
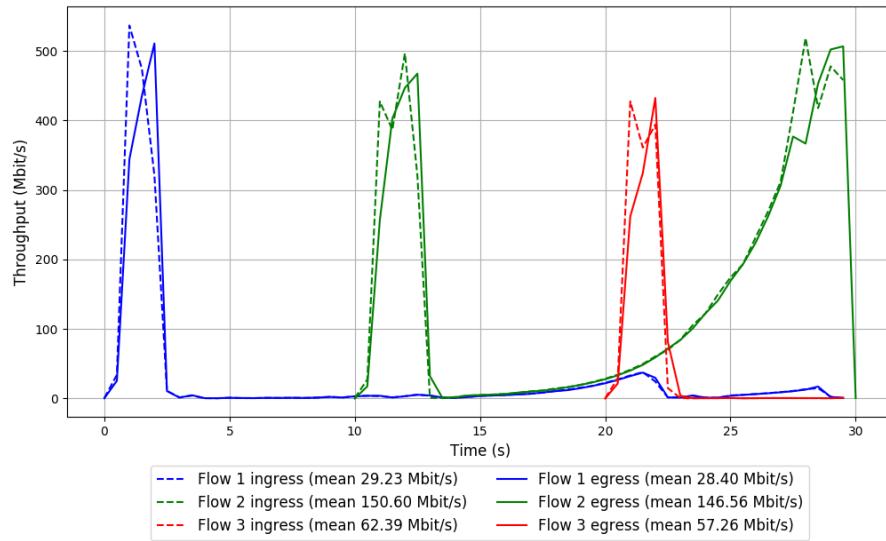
Run 7: Statistics of FillP

Start at: 2018-02-01 05:50:41

End at: 2018-02-01 05:51:11

```
# Below is generated by plot.py at 2018-02-01 09:36:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.87 Mbit/s
95th percentile per-packet one-way delay: 253.652 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 267.494 ms
Loss rate: 2.84%
-- Flow 2:
Average throughput: 146.56 Mbit/s
95th percentile per-packet one-way delay: 244.920 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 57.26 Mbit/s
95th percentile per-packet one-way delay: 275.892 ms
Loss rate: 8.23%
```

Run 7: Report of FillP — Data Link



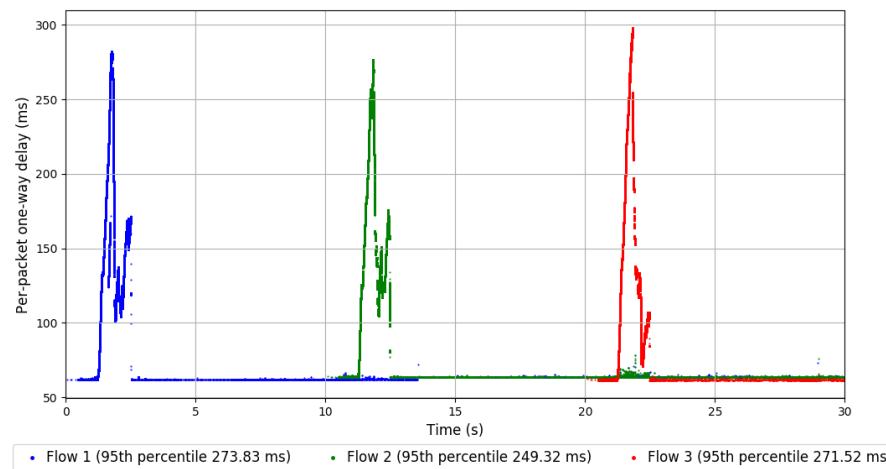
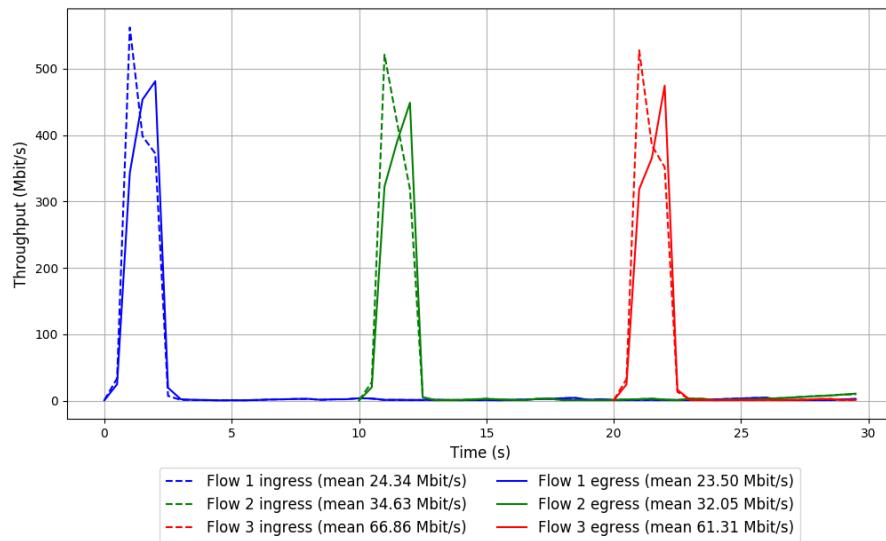
Run 8: Statistics of FillP

Start at: 2018-02-01 06:07:34

End at: 2018-02-01 06:08:04

```
# Below is generated by plot.py at 2018-02-01 09:36:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.14 Mbit/s
95th percentile per-packet one-way delay: 263.655 ms
Loss rate: 6.32%
-- Flow 1:
Average throughput: 23.50 Mbit/s
95th percentile per-packet one-way delay: 273.832 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 249.320 ms
Loss rate: 7.45%
-- Flow 3:
Average throughput: 61.31 Mbit/s
95th percentile per-packet one-way delay: 271.520 ms
Loss rate: 8.30%
```

Run 8: Report of FillP — Data Link



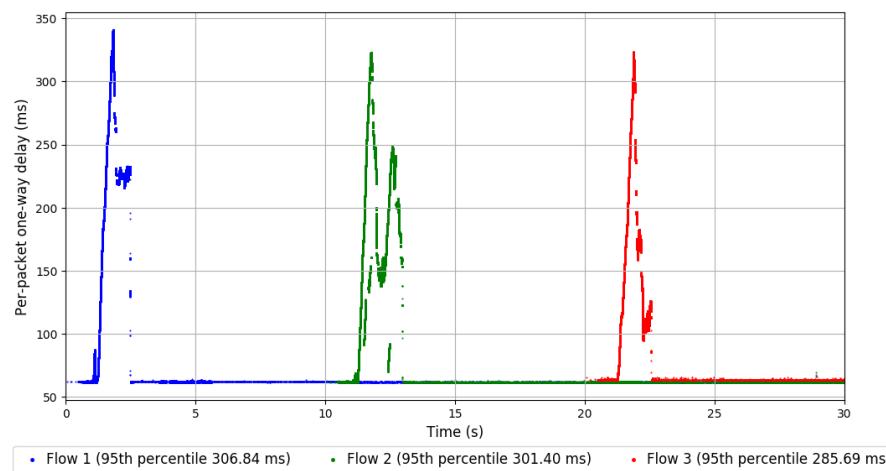
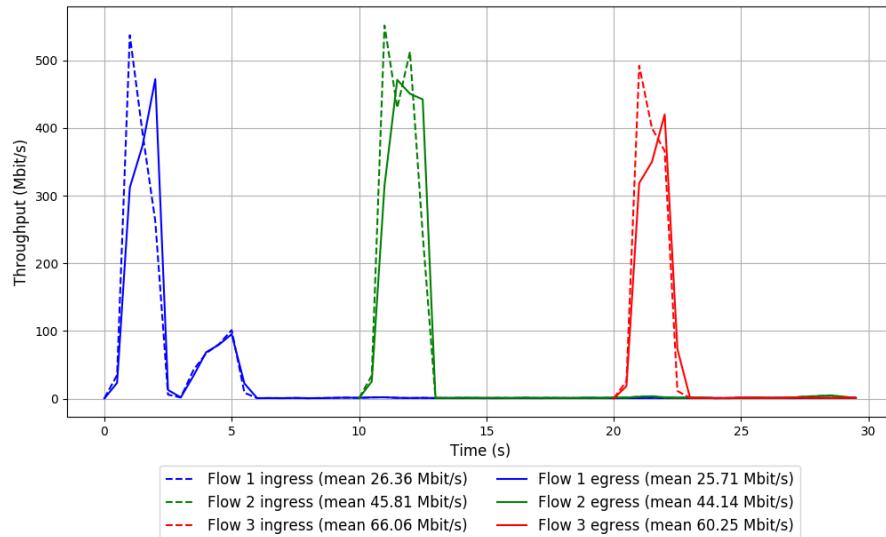
Run 9: Statistics of FillP

Start at: 2018-02-01 06:24:16

End at: 2018-02-01 06:24:46

```
# Below is generated by plot.py at 2018-02-01 09:36:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.02 Mbit/s
95th percentile per-packet one-way delay: 298.131 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 25.71 Mbit/s
95th percentile per-packet one-way delay: 306.836 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 44.14 Mbit/s
95th percentile per-packet one-way delay: 301.404 ms
Loss rate: 3.65%
-- Flow 3:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 285.689 ms
Loss rate: 8.80%
```

Run 9: Report of FillP — Data Link



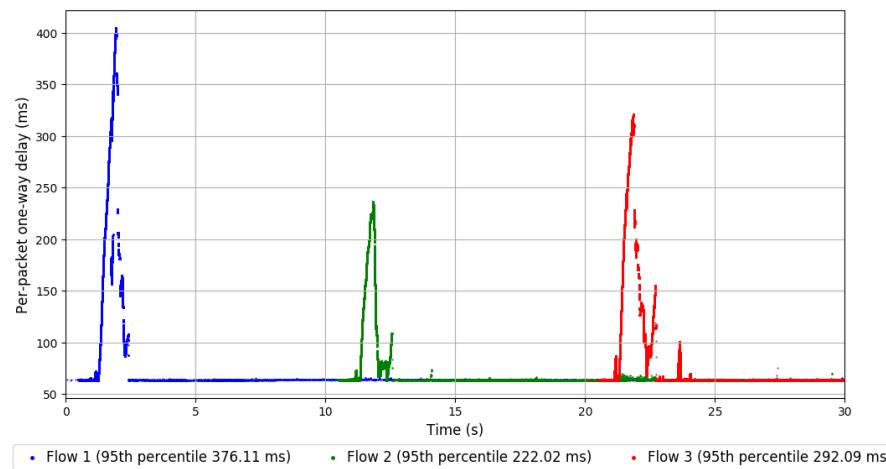
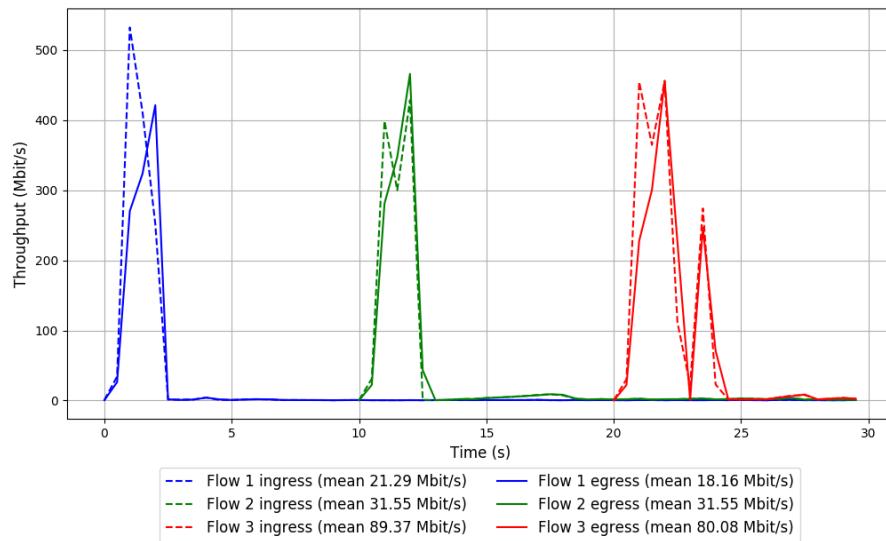
Run 10: Statistics of FillP

Start at: 2018-02-01 06:40:59

End at: 2018-02-01 06:41:29

```
# Below is generated by plot.py at 2018-02-01 09:36:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.67 Mbit/s
95th percentile per-packet one-way delay: 297.447 ms
Loss rate: 8.64%
-- Flow 1:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 376.113 ms
Loss rate: 14.72%
-- Flow 2:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 222.022 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.08 Mbit/s
95th percentile per-packet one-way delay: 292.088 ms
Loss rate: 10.40%
```

Run 10: Report of FillP — Data Link

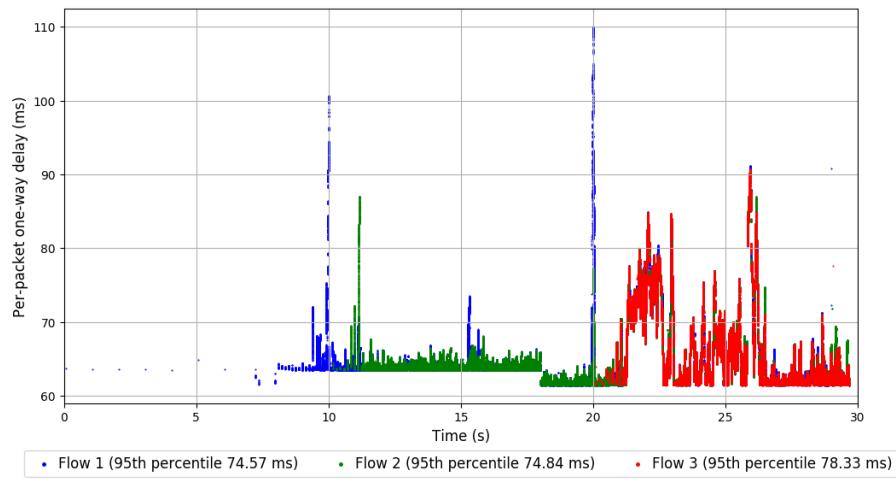
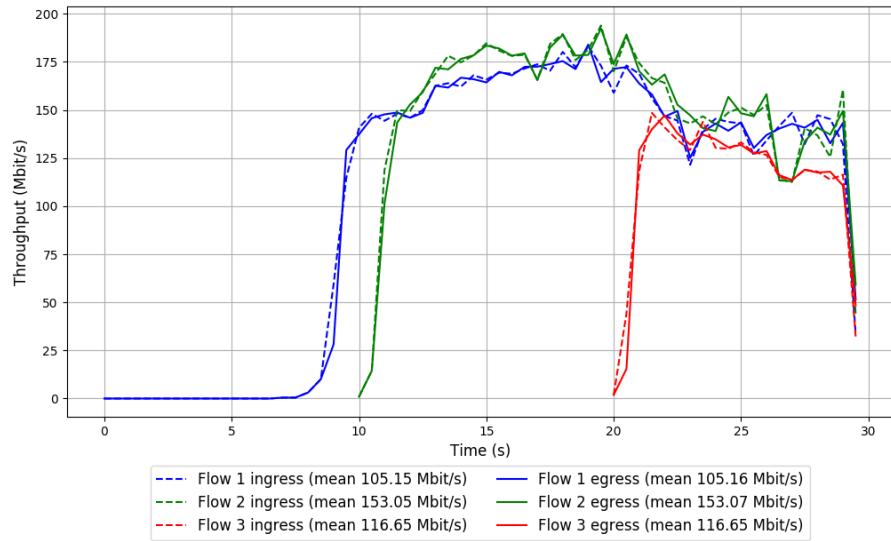


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-01 04:08:19
End at: 2018-02-01 04:08:49

# Below is generated by plot.py at 2018-02-01 09:36:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.81 Mbit/s
95th percentile per-packet one-way delay: 75.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.16 Mbit/s
95th percentile per-packet one-way delay: 74.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 153.07 Mbit/s
95th percentile per-packet one-way delay: 74.843 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 116.65 Mbit/s
95th percentile per-packet one-way delay: 78.332 ms
Loss rate: 0.00%
```

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



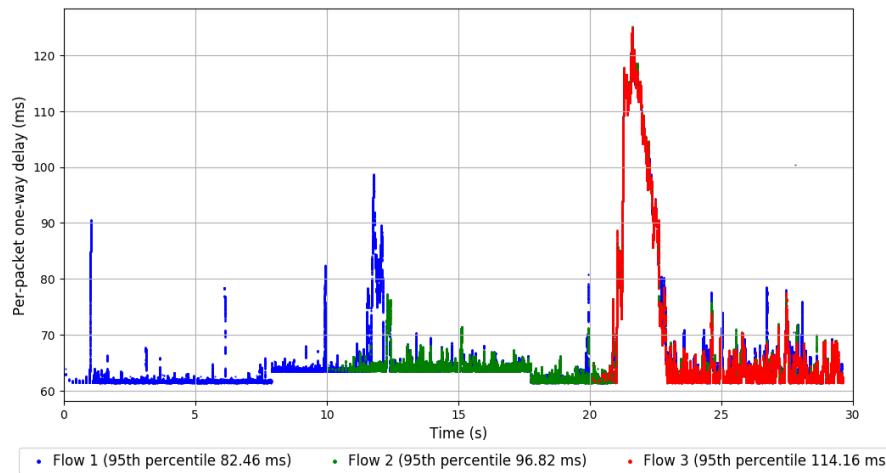
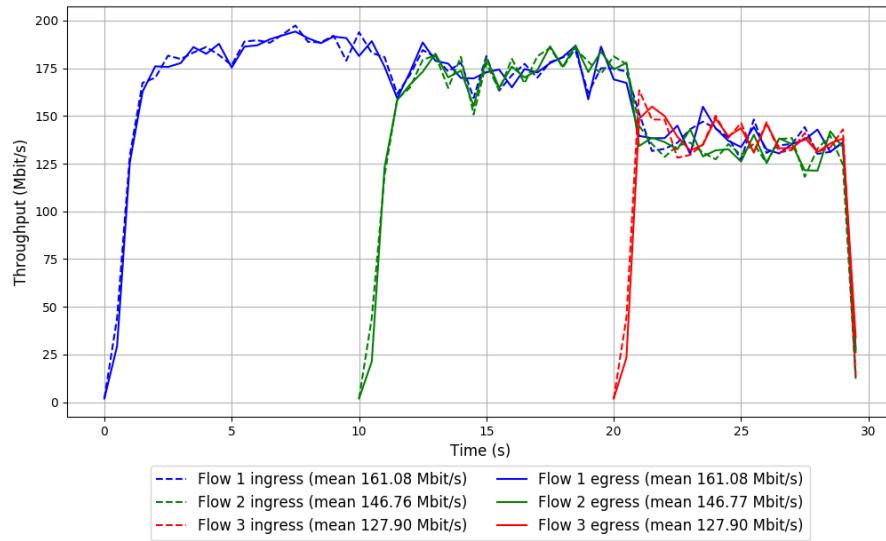
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-01 04:24:49

End at: 2018-02-01 04:25:19

```
# Below is generated by plot.py at 2018-02-01 09:37:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.34 Mbit/s
95th percentile per-packet one-way delay: 97.411 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 161.08 Mbit/s
95th percentile per-packet one-way delay: 82.462 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 146.77 Mbit/s
95th percentile per-packet one-way delay: 96.824 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 127.90 Mbit/s
95th percentile per-packet one-way delay: 114.155 ms
Loss rate: 0.01%
```

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



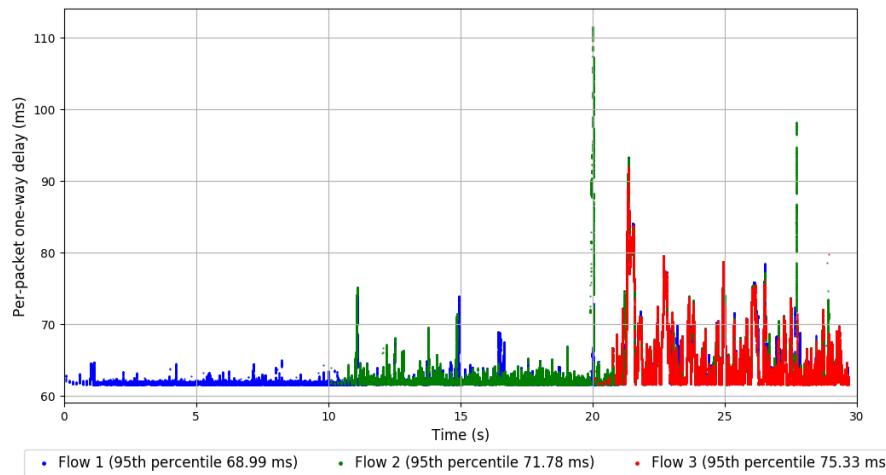
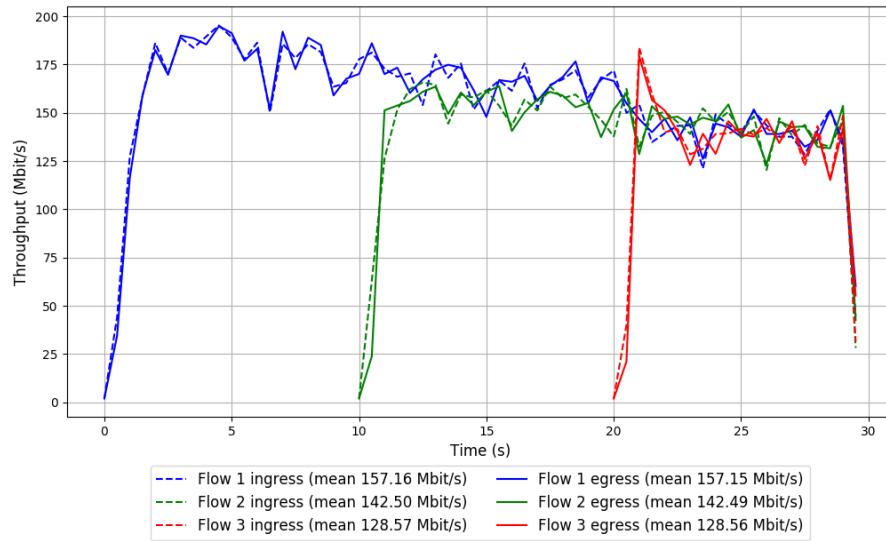
Run 3: Statistics of Indigo-1-32

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

End at: 2018-02-01 04:41:31

```
# Below is generated by plot.py at 2018-02-01 09:37:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.03 Mbit/s
95th percentile per-packet one-way delay: 70.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.15 Mbit/s
95th percentile per-packet one-way delay: 68.988 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.49 Mbit/s
95th percentile per-packet one-way delay: 71.778 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.56 Mbit/s
95th percentile per-packet one-way delay: 75.326 ms
Loss rate: 0.00%
```

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



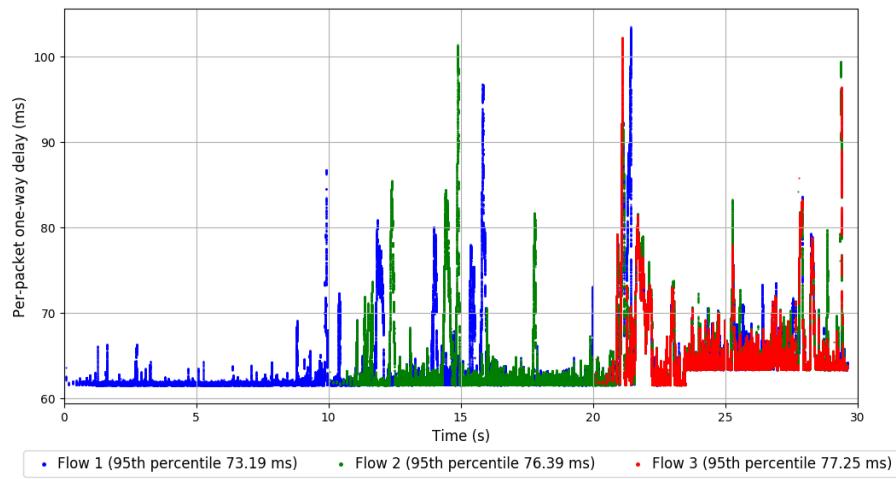
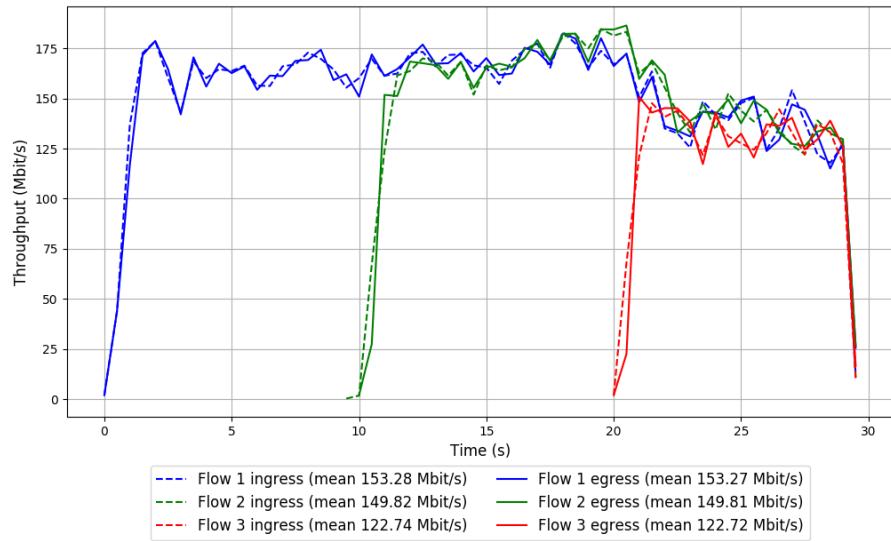
Run 4: Statistics of Indigo-1-32

Start at: 2018-02-01 04:57:14

End at: 2018-02-01 04:57:44

```
# Below is generated by plot.py at 2018-02-01 09:38:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.97 Mbit/s
95th percentile per-packet one-way delay: 75.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.27 Mbit/s
95th percentile per-packet one-way delay: 73.192 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.81 Mbit/s
95th percentile per-packet one-way delay: 76.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.72 Mbit/s
95th percentile per-packet one-way delay: 77.248 ms
Loss rate: 0.00%
```

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



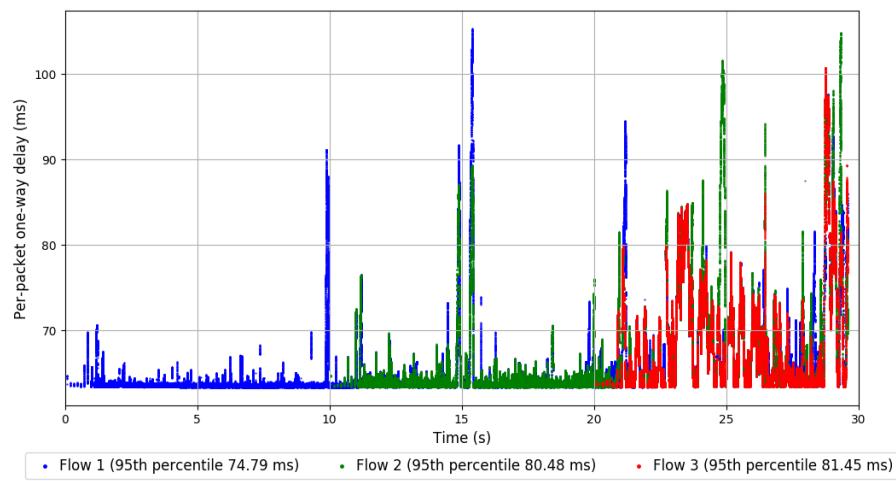
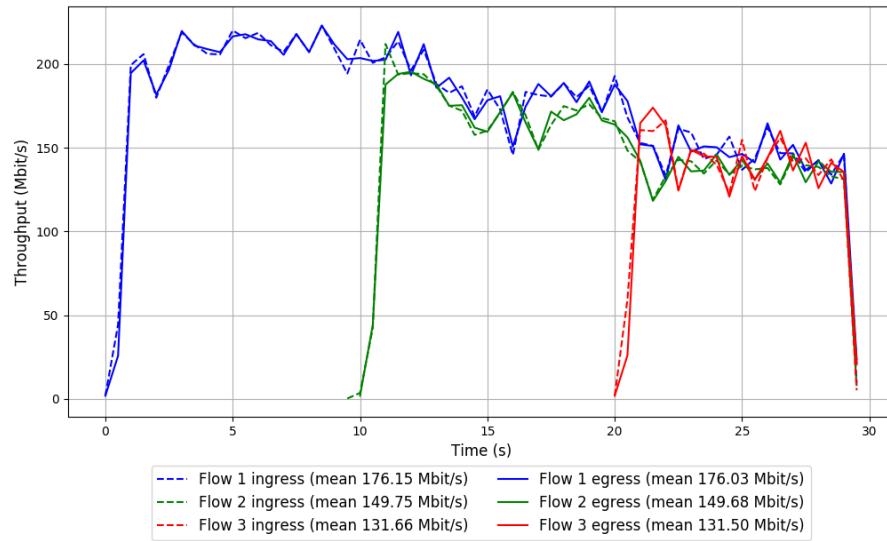
Run 5: Statistics of Indigo-1-32

Start at: 2018-02-01 05:13:33

End at: 2018-02-01 05:14:03

```
# Below is generated by plot.py at 2018-02-01 09:39:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.59 Mbit/s
95th percentile per-packet one-way delay: 78.665 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 176.03 Mbit/s
95th percentile per-packet one-way delay: 74.787 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 149.68 Mbit/s
95th percentile per-packet one-way delay: 80.480 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 131.50 Mbit/s
95th percentile per-packet one-way delay: 81.455 ms
Loss rate: 0.08%
```

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



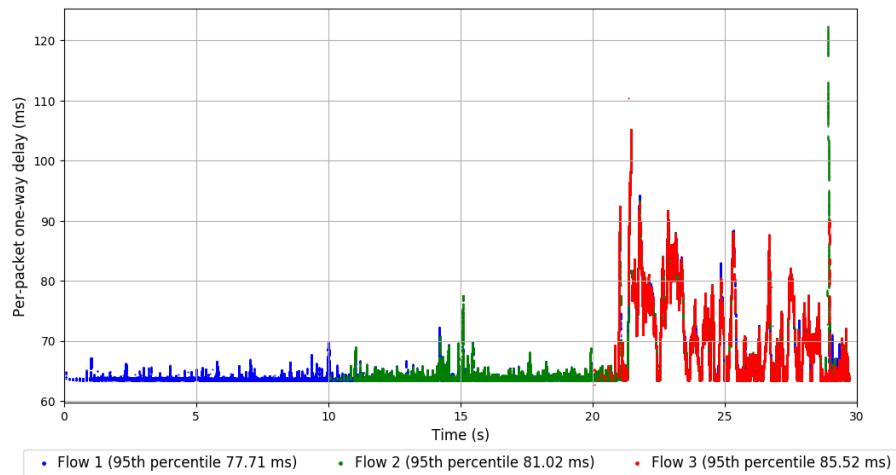
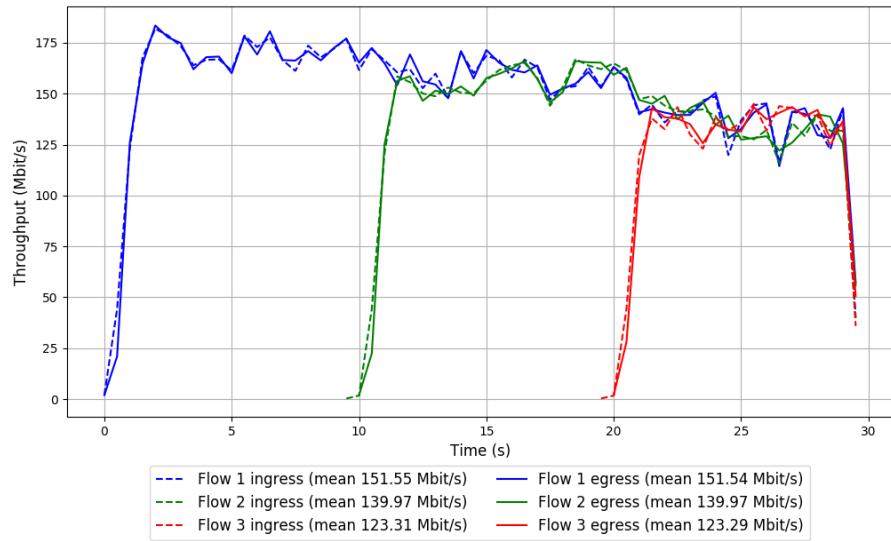
Run 6: Statistics of Indigo-1-32

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

End at: 2018-02-01 05:30:32

```
# Below is generated by plot.py at 2018-02-01 09:39:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.42 Mbit/s
95th percentile per-packet one-way delay: 80.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.54 Mbit/s
95th percentile per-packet one-way delay: 77.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 139.97 Mbit/s
95th percentile per-packet one-way delay: 81.022 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 123.29 Mbit/s
95th percentile per-packet one-way delay: 85.520 ms
Loss rate: 0.00%
```

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



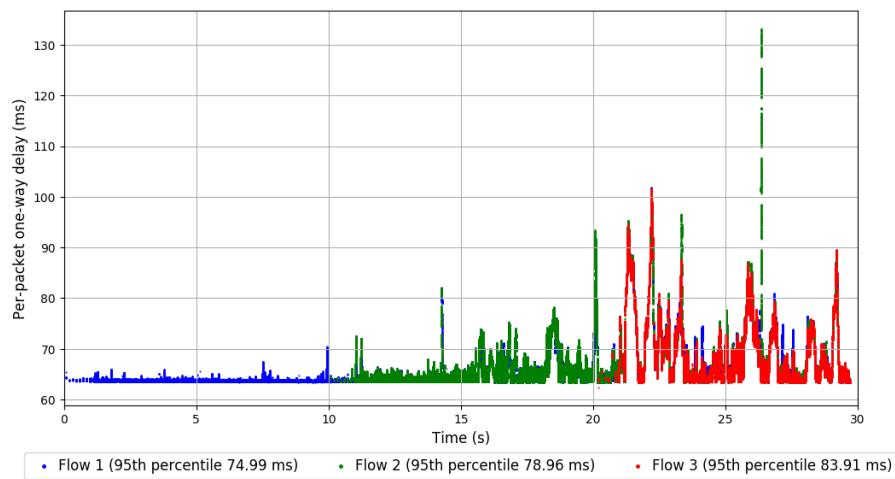
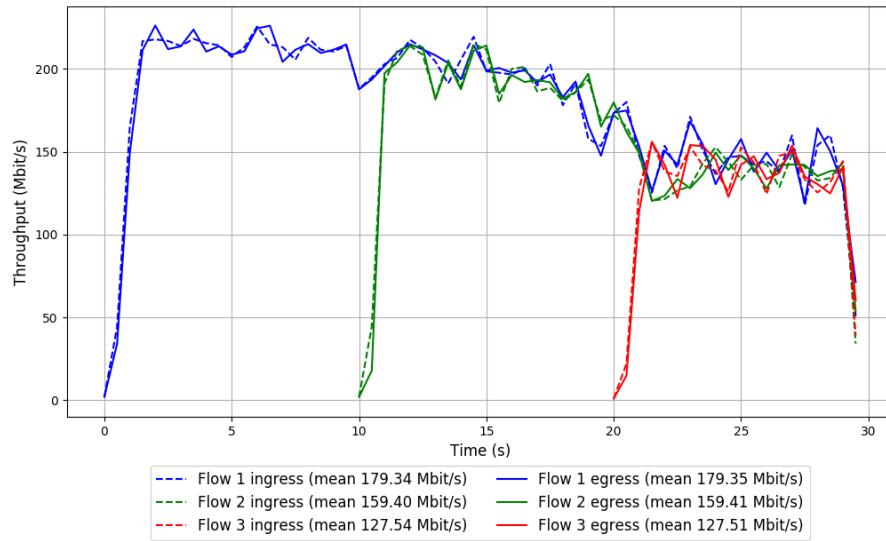
Run 7: Statistics of Indigo-1-32

Start at: 2018-02-01 05:46:41

End at: 2018-02-01 05:47:11

```
# Below is generated by plot.py at 2018-02-01 09:40:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.98 Mbit/s
95th percentile per-packet one-way delay: 77.878 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.35 Mbit/s
95th percentile per-packet one-way delay: 74.992 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 159.41 Mbit/s
95th percentile per-packet one-way delay: 78.962 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.51 Mbit/s
95th percentile per-packet one-way delay: 83.907 ms
Loss rate: 0.00%
```

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



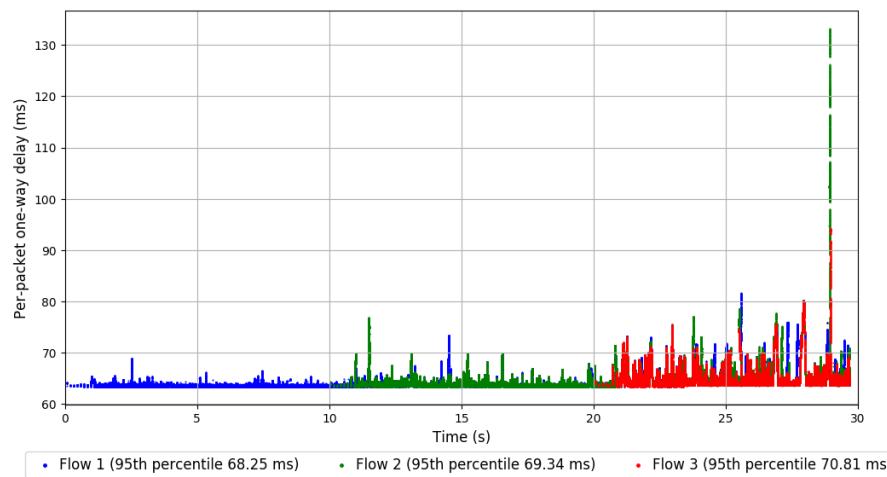
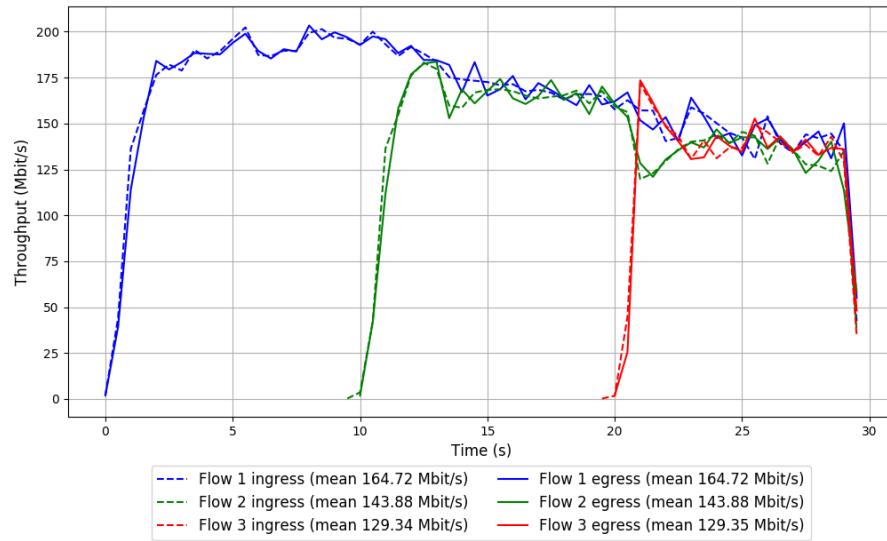
Run 8: Statistics of Indigo-1-32

Start at: 2018-02-01 06:03:24

End at: 2018-02-01 06:03:54

```
# Below is generated by plot.py at 2018-02-01 09:41:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.22 Mbit/s
95th percentile per-packet one-way delay: 69.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.72 Mbit/s
95th percentile per-packet one-way delay: 68.250 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.88 Mbit/s
95th percentile per-packet one-way delay: 69.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.35 Mbit/s
95th percentile per-packet one-way delay: 70.807 ms
Loss rate: 0.00%
```

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



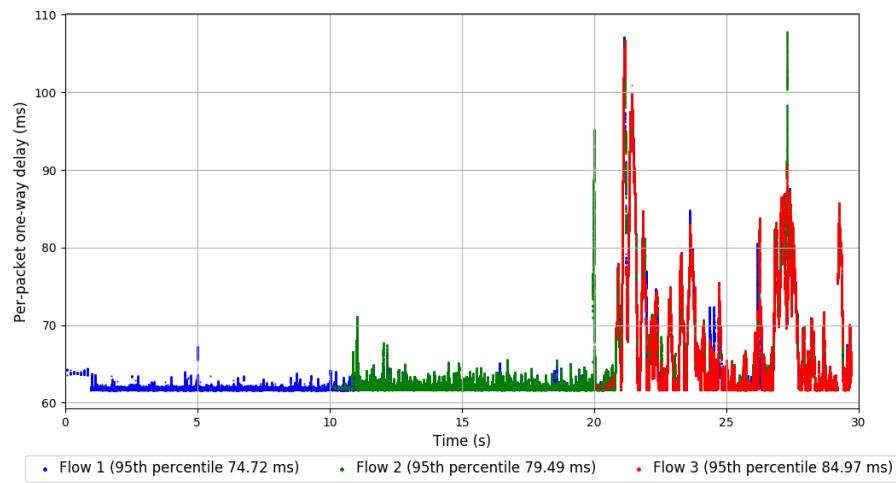
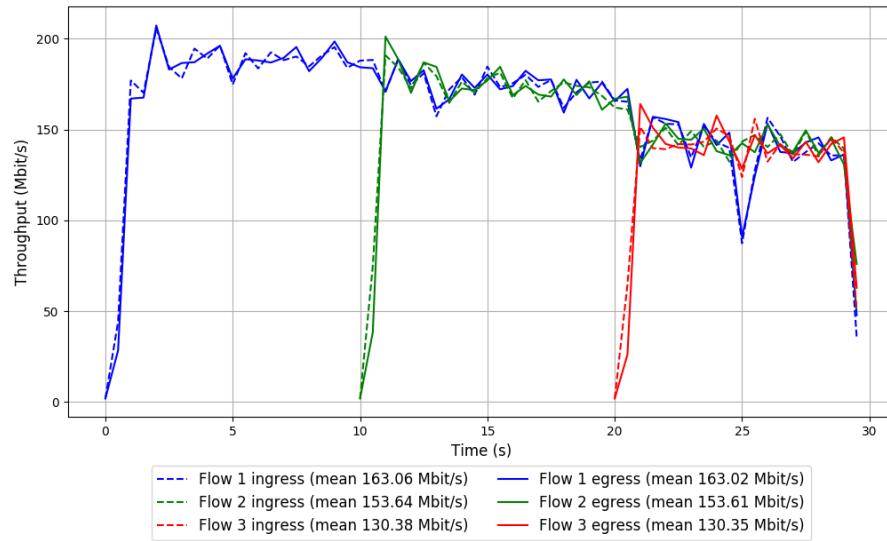
Run 9: Statistics of Indigo-1-32

Start at: 2018-02-01 06:20:26

End at: 2018-02-01 06:20:56

```
# Below is generated by plot.py at 2018-02-01 09:41:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.16 Mbit/s
95th percentile per-packet one-way delay: 78.859 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 163.02 Mbit/s
95th percentile per-packet one-way delay: 74.724 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 153.61 Mbit/s
95th percentile per-packet one-way delay: 79.490 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.35 Mbit/s
95th percentile per-packet one-way delay: 84.967 ms
Loss rate: 0.04%
```

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

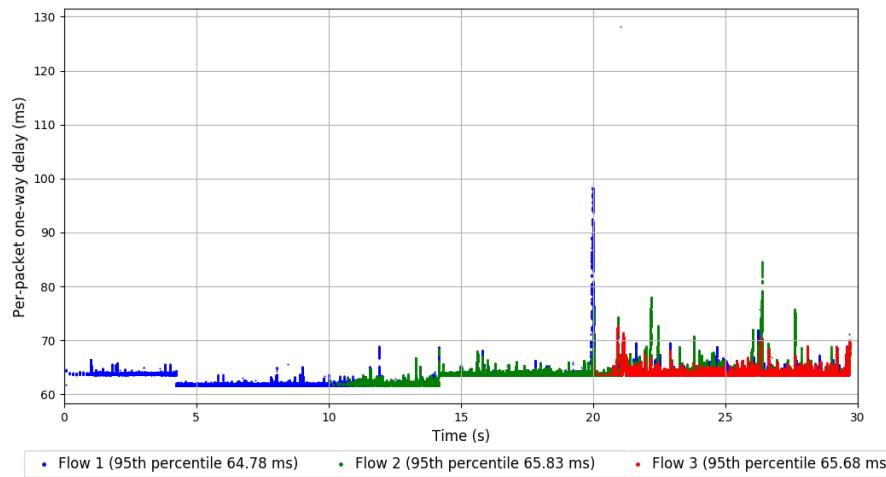
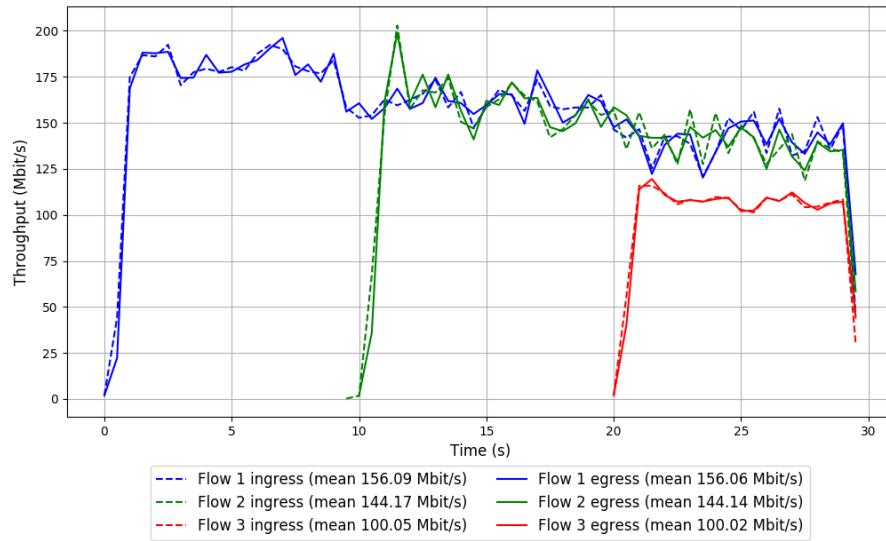


```
Run 10: Statistics of Indigo-1-32

Start at: 2018-02-01 06:37:03
End at: 2018-02-01 06:37:33

# Below is generated by plot.py at 2018-02-01 09:42:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.11 Mbit/s
95th percentile per-packet one-way delay: 65.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.06 Mbit/s
95th percentile per-packet one-way delay: 64.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 144.14 Mbit/s
95th percentile per-packet one-way delay: 65.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.02 Mbit/s
95th percentile per-packet one-way delay: 65.684 ms
Loss rate: 0.00%
```

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

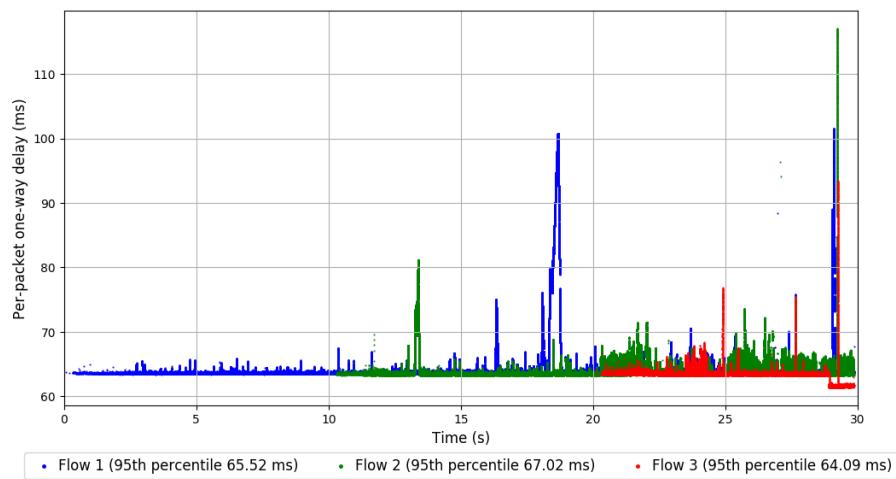
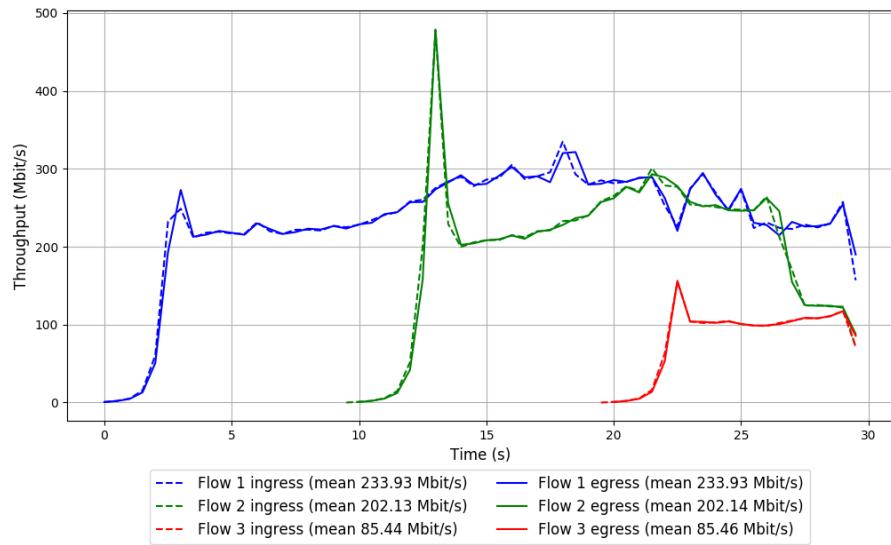


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-01 04:07:08
End at: 2018-02-01 04:07:38

# Below is generated by plot.py at 2018-02-01 09:45:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.66 Mbit/s
95th percentile per-packet one-way delay: 66.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.93 Mbit/s
95th percentile per-packet one-way delay: 65.515 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.14 Mbit/s
95th percentile per-packet one-way delay: 67.016 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 64.093 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-latency — Data Link



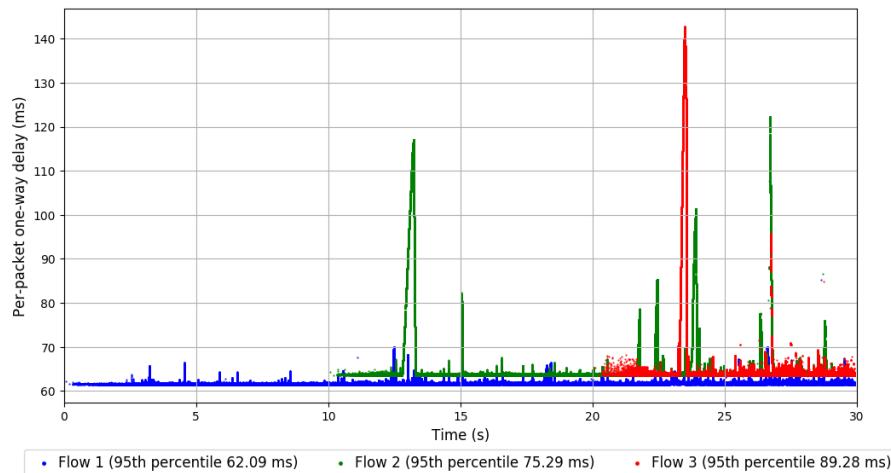
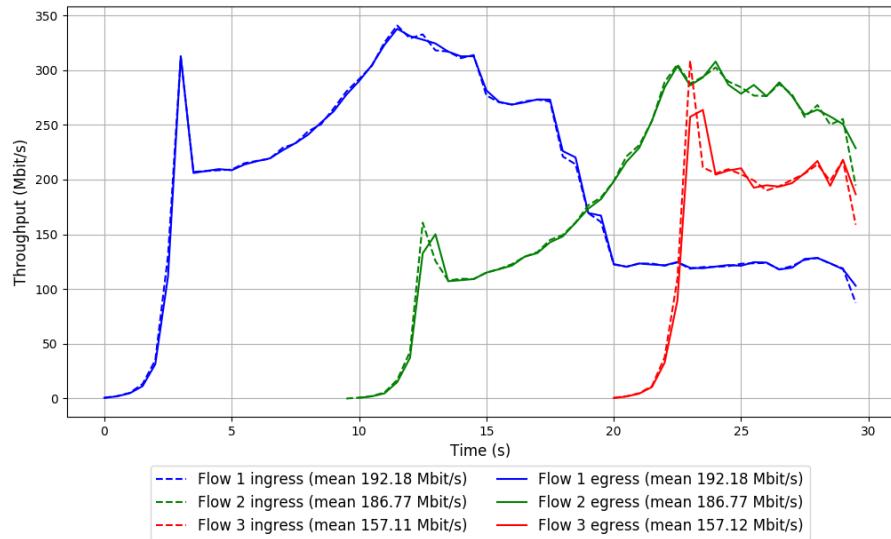
Run 2: Statistics of Vivace-latency

Start at: 2018-02-01 04:23:41

End at: 2018-02-01 04:24:11

```
# Below is generated by plot.py at 2018-02-01 09:45:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 368.01 Mbit/s
95th percentile per-packet one-way delay: 66.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.18 Mbit/s
95th percentile per-packet one-way delay: 62.087 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 186.77 Mbit/s
95th percentile per-packet one-way delay: 75.287 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.12 Mbit/s
95th percentile per-packet one-way delay: 89.283 ms
Loss rate: 0.01%
```

Run 2: Report of Vivace-latency — Data Link



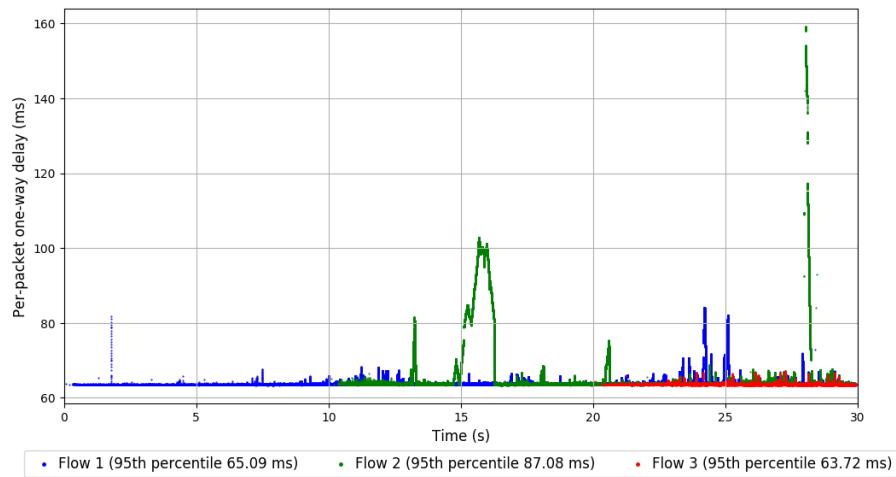
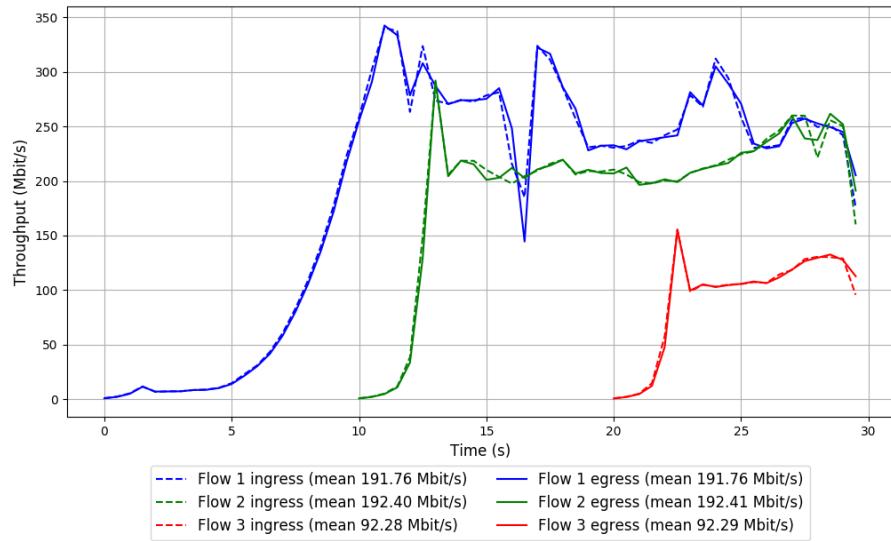
Run 3: Statistics of Vivace-latency

Start at: 2018-02-01 04:39:54

End at: 2018-02-01 04:40:24

```
# Below is generated by plot.py at 2018-02-01 09:46:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.92 Mbit/s
95th percentile per-packet one-way delay: 67.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.76 Mbit/s
95th percentile per-packet one-way delay: 65.092 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 192.41 Mbit/s
95th percentile per-packet one-way delay: 87.084 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 63.718 ms
Loss rate: 0.00%
```

Run 3: Report of Vivace-latency — Data Link



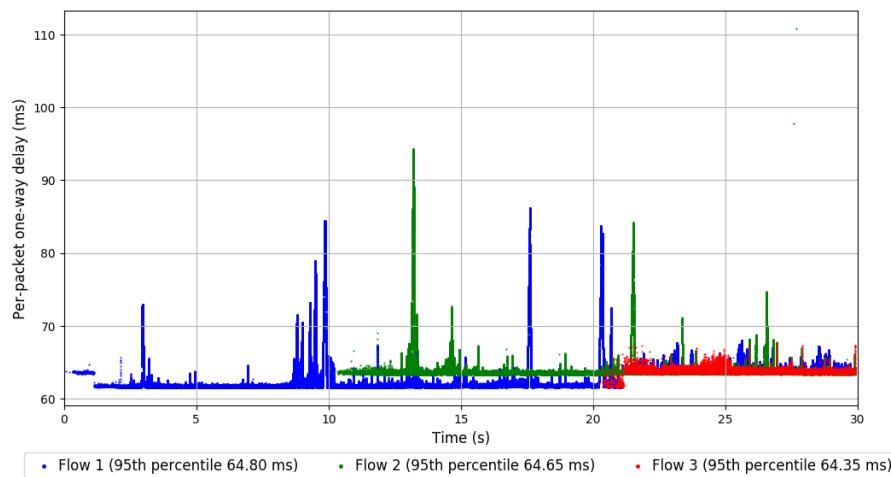
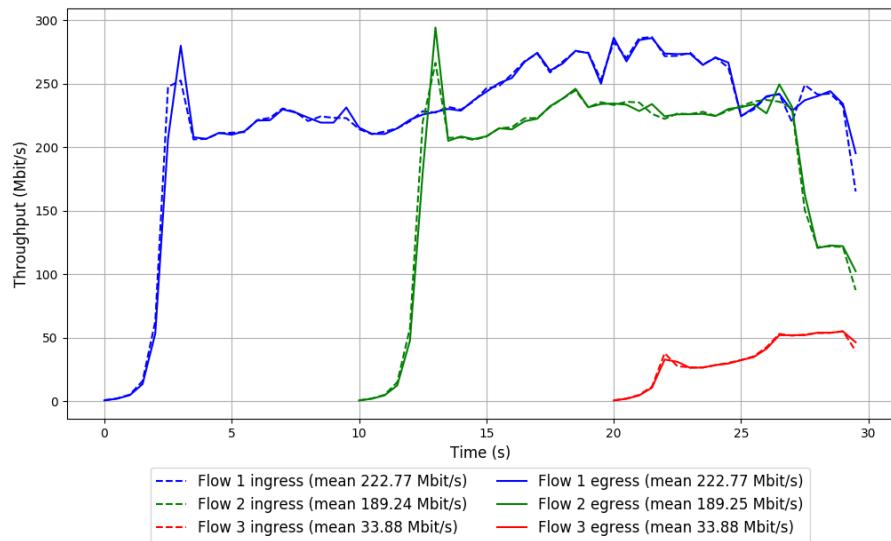
Run 4: Statistics of Vivace-latency

Start at: 2018-02-01 04:56:06

End at: 2018-02-01 04:56:36

```
# Below is generated by plot.py at 2018-02-01 09:46:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.71 Mbit/s
95th percentile per-packet one-way delay: 64.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.77 Mbit/s
95th percentile per-packet one-way delay: 64.802 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 189.25 Mbit/s
95th percentile per-packet one-way delay: 64.651 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 64.349 ms
Loss rate: 0.00%
```

Run 4: Report of Vivace-latency — Data Link



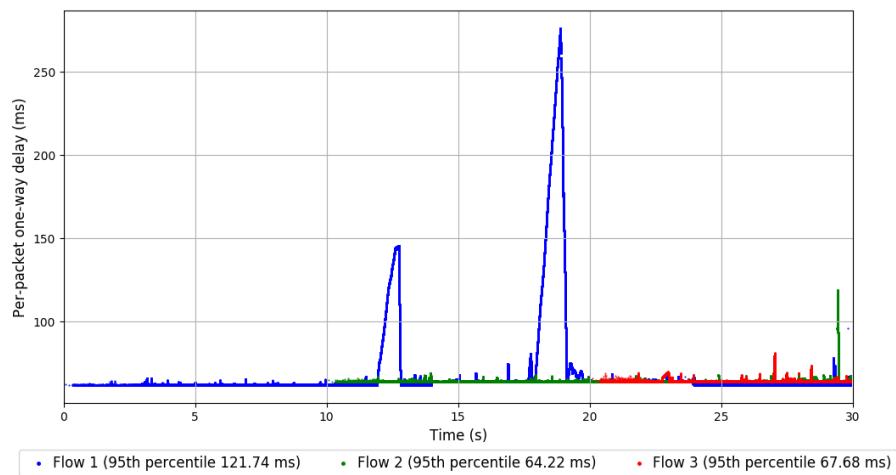
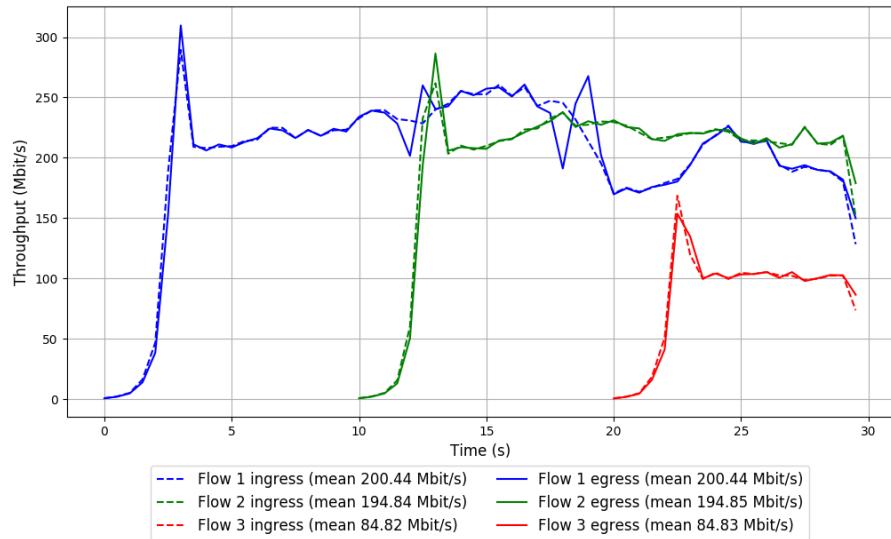
Run 5: Statistics of Vivace-latency

Start at: 2018-02-01 05:12:23

End at: 2018-02-01 05:12:53

```
# Below is generated by plot.py at 2018-02-01 09:47:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.84 Mbit/s
95th percentile per-packet one-way delay: 73.134 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.44 Mbit/s
95th percentile per-packet one-way delay: 121.739 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.85 Mbit/s
95th percentile per-packet one-way delay: 64.218 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.83 Mbit/s
95th percentile per-packet one-way delay: 67.676 ms
Loss rate: 0.00%
```

Run 5: Report of Vivace-latency — Data Link



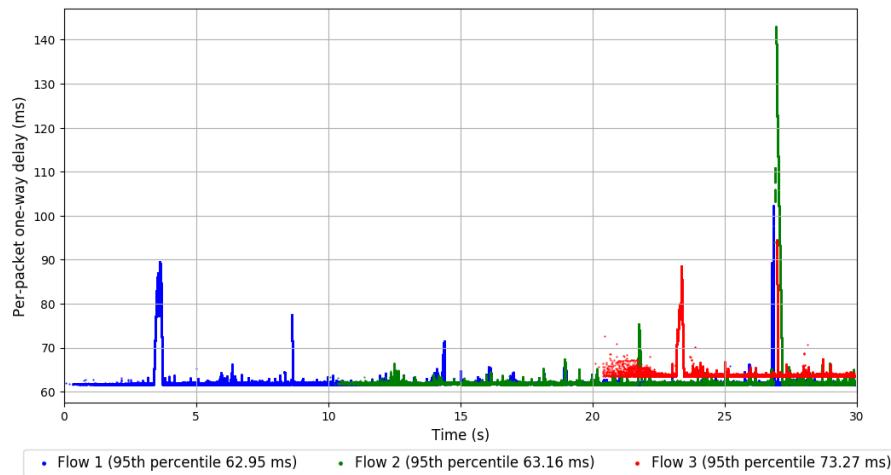
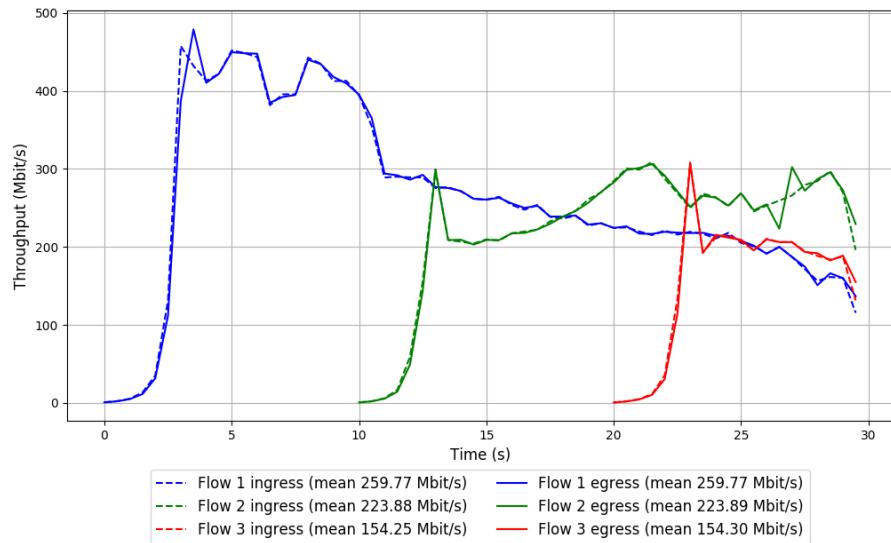
Run 6: Statistics of Vivace-latency

Start at: 2018-02-01 05:28:47

End at: 2018-02-01 05:29:17

```
# Below is generated by plot.py at 2018-02-01 09:50:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.24 Mbit/s
95th percentile per-packet one-way delay: 63.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.77 Mbit/s
95th percentile per-packet one-way delay: 62.947 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 223.89 Mbit/s
95th percentile per-packet one-way delay: 63.161 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 154.30 Mbit/s
95th percentile per-packet one-way delay: 73.269 ms
Loss rate: 0.00%
```

Run 6: Report of Vivace-latency — Data Link



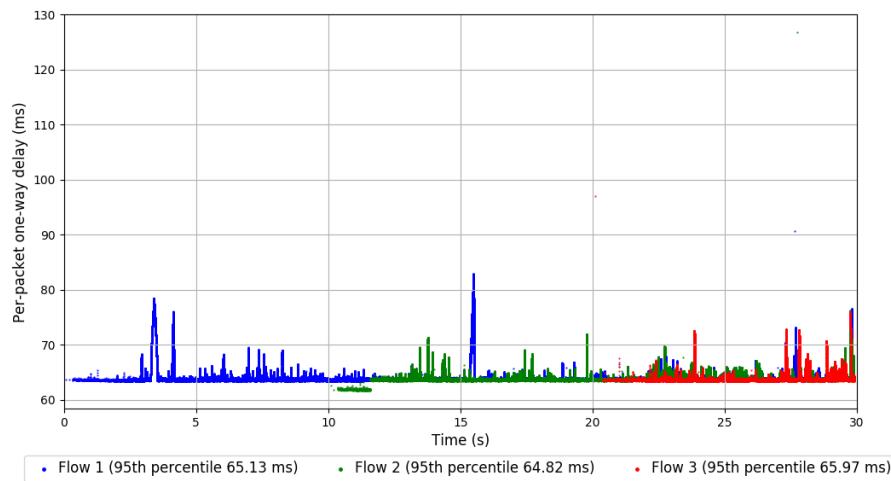
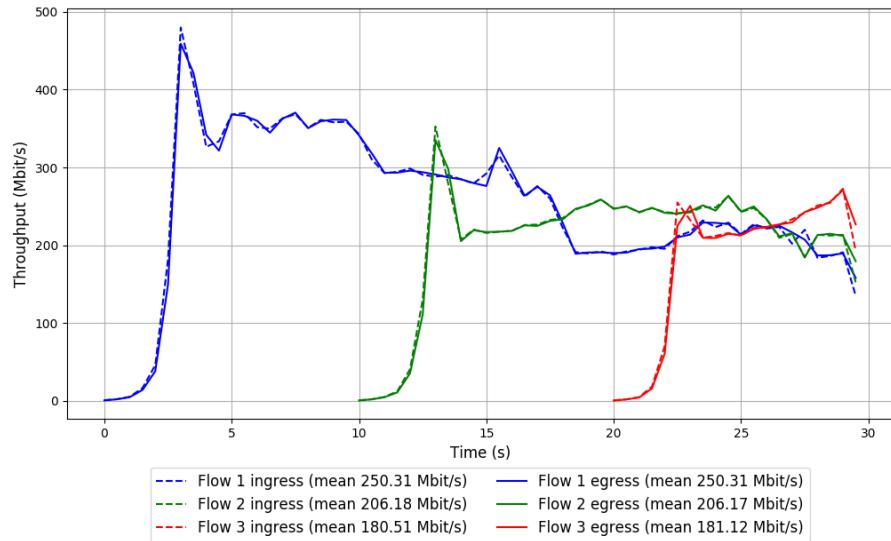
Run 7: Statistics of Vivace-latency

Start at: 2018-02-01 05:45:26

End at: 2018-02-01 05:45:56

```
# Below is generated by plot.py at 2018-02-01 09:50:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 446.72 Mbit/s
95th percentile per-packet one-way delay: 65.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.31 Mbit/s
95th percentile per-packet one-way delay: 65.132 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.17 Mbit/s
95th percentile per-packet one-way delay: 64.824 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 181.12 Mbit/s
95th percentile per-packet one-way delay: 65.973 ms
Loss rate: 0.00%
```

Run 7: Report of Vivace-latency — Data Link



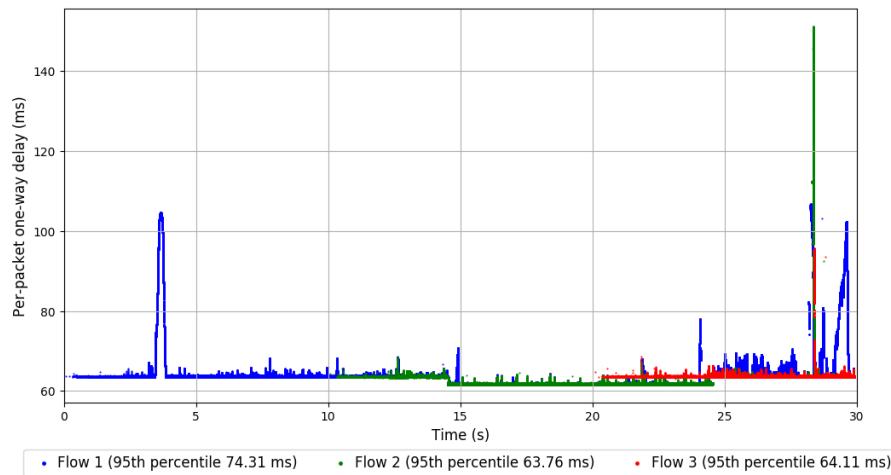
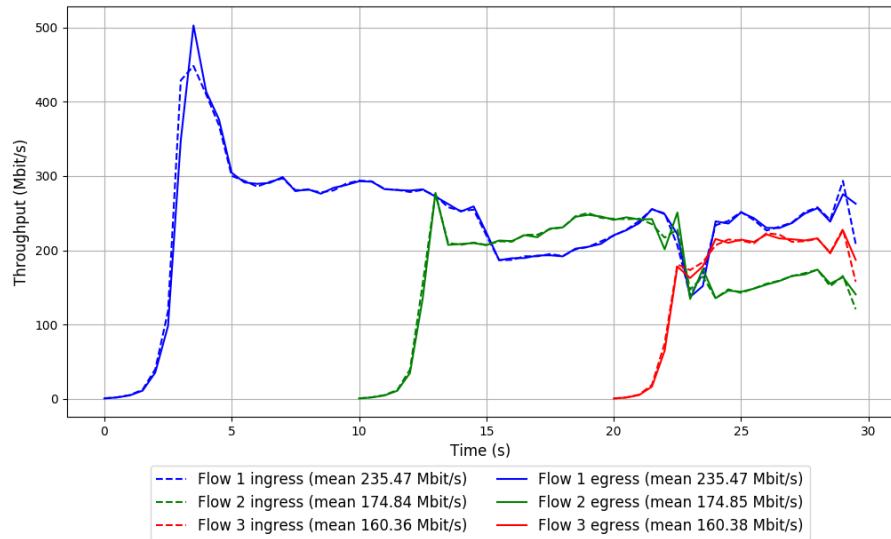
Run 8: Statistics of Vivace-latency

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

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

```
# Below is generated by plot.py at 2018-02-01 09:50:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.45 Mbit/s
95th percentile per-packet one-way delay: 66.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.47 Mbit/s
95th percentile per-packet one-way delay: 74.314 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 174.85 Mbit/s
95th percentile per-packet one-way delay: 63.760 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 160.38 Mbit/s
95th percentile per-packet one-way delay: 64.106 ms
Loss rate: 0.00%
```

Run 8: Report of Vivace-latency — Data Link



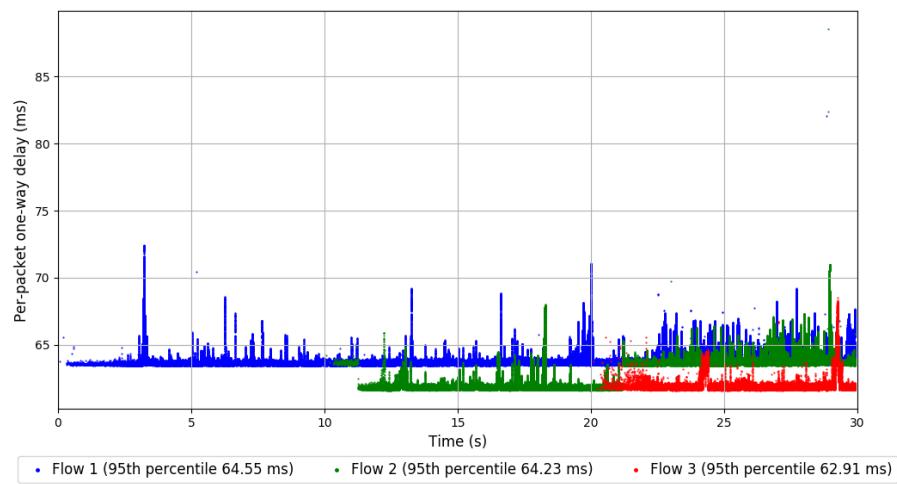
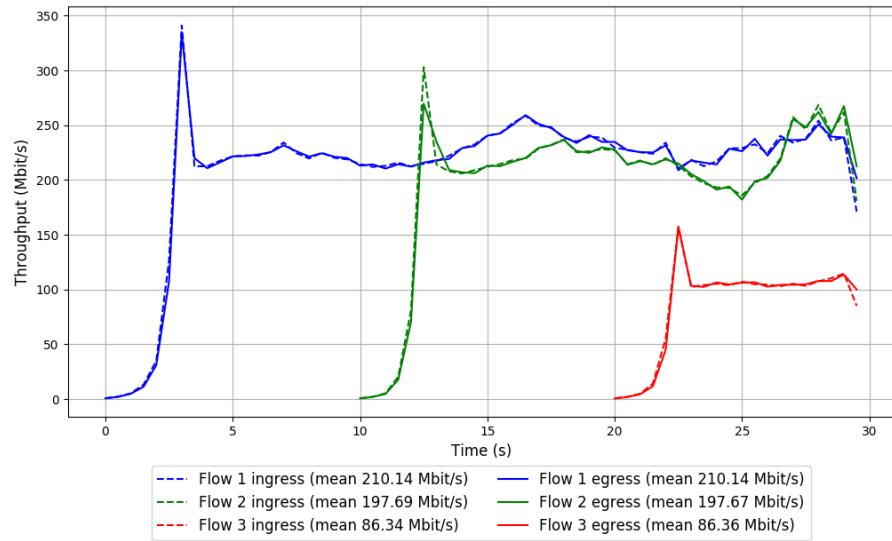
Run 9: Statistics of Vivace-latency

Start at: 2018-02-01 06:19:16

End at: 2018-02-01 06:19:46

```
# Below is generated by plot.py at 2018-02-01 09:53:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.88 Mbit/s
95th percentile per-packet one-way delay: 64.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.14 Mbit/s
95th percentile per-packet one-way delay: 64.552 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.67 Mbit/s
95th percentile per-packet one-way delay: 64.230 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 86.36 Mbit/s
95th percentile per-packet one-way delay: 62.909 ms
Loss rate: 0.00%
```

Run 9: Report of Vivace-latency — Data Link



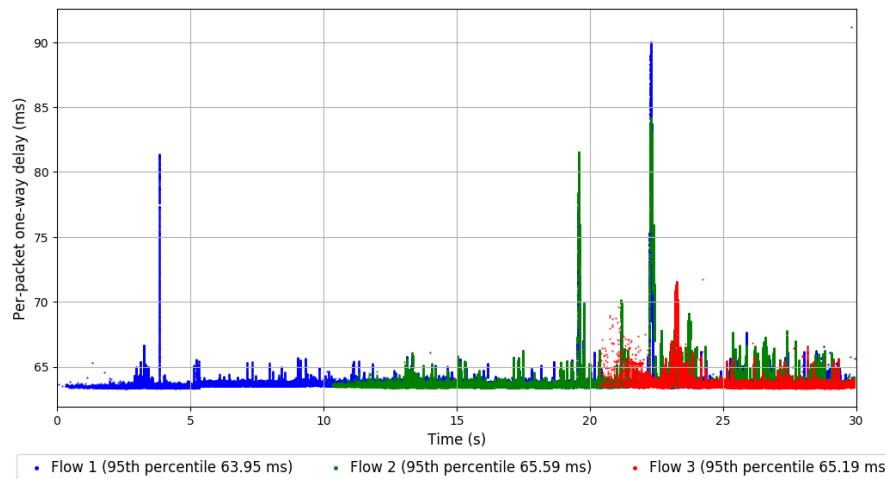
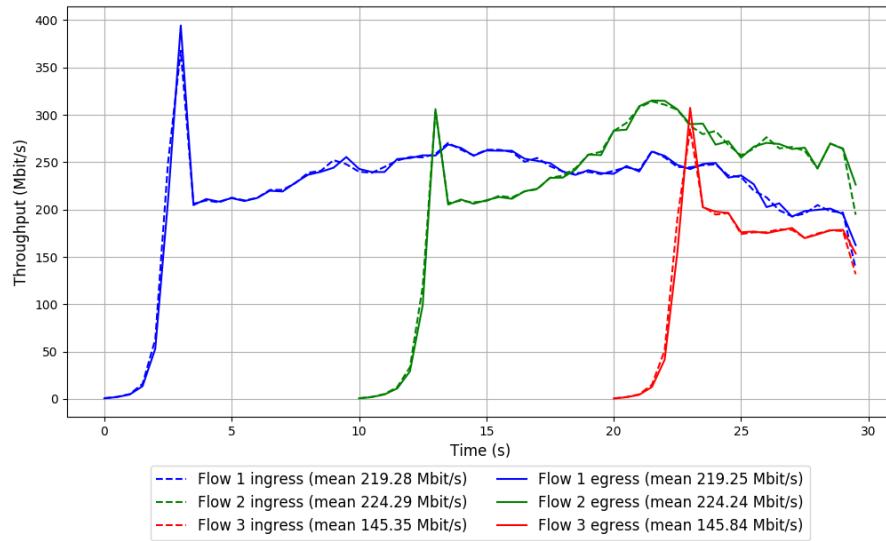
Run 10: Statistics of Vivace-latency

Start at: 2018-02-01 06:35:52

End at: 2018-02-01 06:36:22

```
# Below is generated by plot.py at 2018-02-01 09:53:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.18 Mbit/s
95th percentile per-packet one-way delay: 64.704 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 219.25 Mbit/s
95th percentile per-packet one-way delay: 63.953 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 224.24 Mbit/s
95th percentile per-packet one-way delay: 65.594 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 145.84 Mbit/s
95th percentile per-packet one-way delay: 65.190 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-latency — Data Link

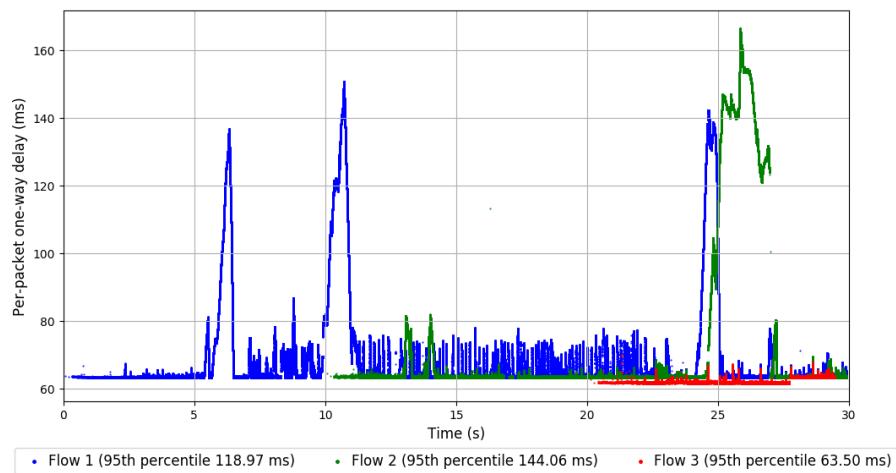
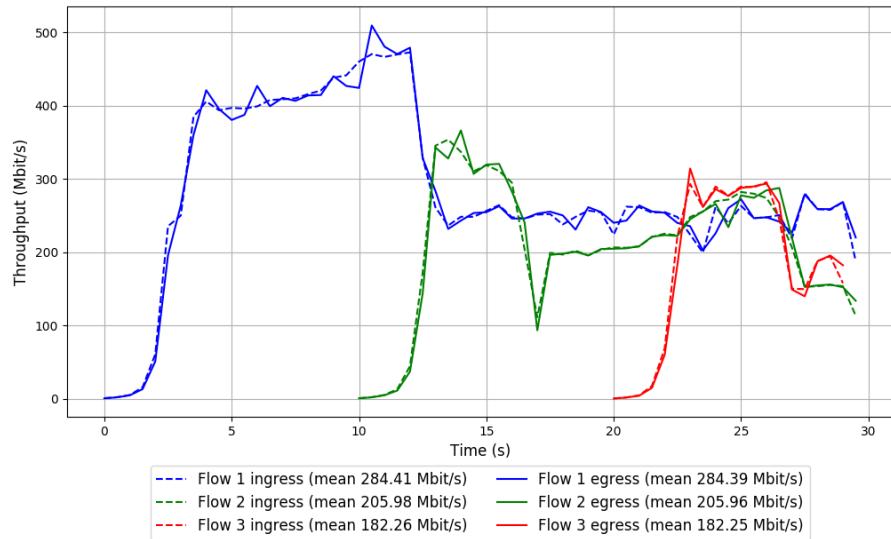


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-01 04:14:09
End at: 2018-02-01 04:14:39

# Below is generated by plot.py at 2018-02-01 09:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 478.22 Mbit/s
95th percentile per-packet one-way delay: 127.853 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 284.39 Mbit/s
95th percentile per-packet one-way delay: 118.975 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 205.96 Mbit/s
95th percentile per-packet one-way delay: 144.055 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 182.25 Mbit/s
95th percentile per-packet one-way delay: 63.502 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



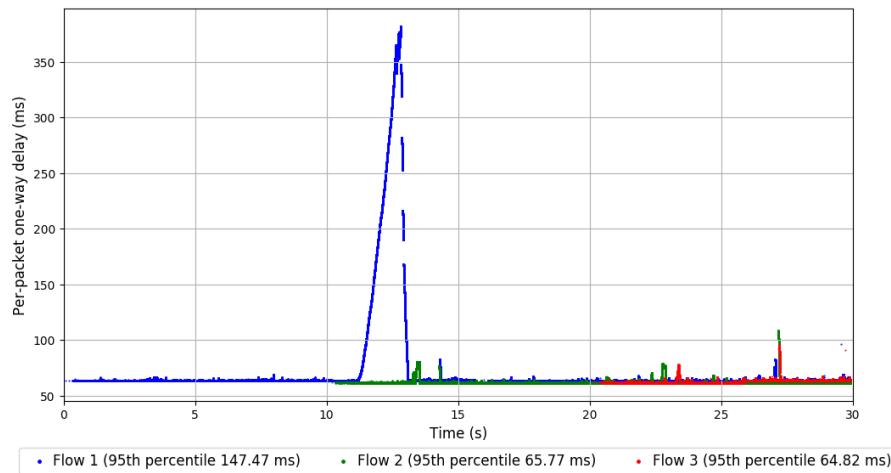
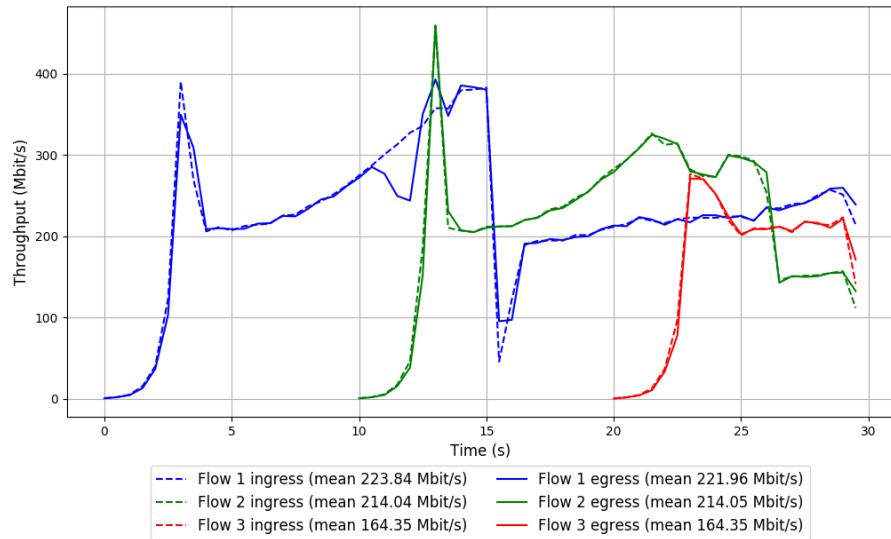
Run 2: Statistics of Vivace-loss

Start at: 2018-02-01 04:30:41

End at: 2018-02-01 04:31:11

```
# Below is generated by plot.py at 2018-02-01 09:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.19 Mbit/s
95th percentile per-packet one-way delay: 76.066 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 221.96 Mbit/s
95th percentile per-packet one-way delay: 147.468 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 214.05 Mbit/s
95th percentile per-packet one-way delay: 65.774 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 164.35 Mbit/s
95th percentile per-packet one-way delay: 64.823 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



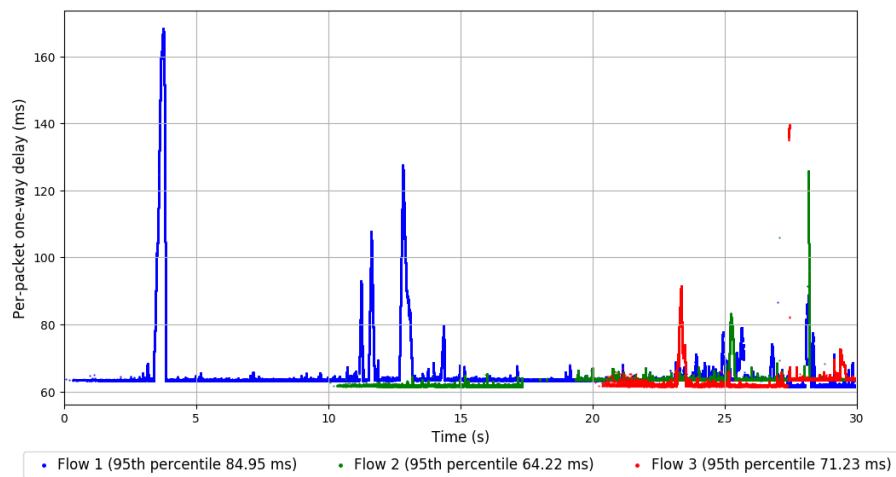
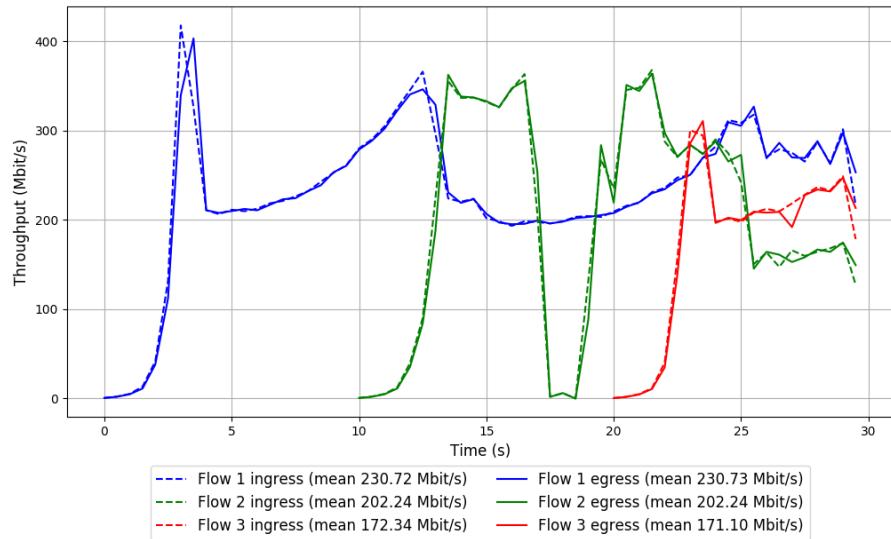
Run 3: Statistics of Vivace-loss

Start at: 2018-02-01 04:46:50

End at: 2018-02-01 04:47:20

```
# Below is generated by plot.py at 2018-02-01 09:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.45 Mbit/s
95th percentile per-packet one-way delay: 74.100 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 230.73 Mbit/s
95th percentile per-packet one-way delay: 84.955 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.24 Mbit/s
95th percentile per-packet one-way delay: 64.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 171.10 Mbit/s
95th percentile per-packet one-way delay: 71.228 ms
Loss rate: 0.71%
```

Run 3: Report of Vivace-loss — Data Link



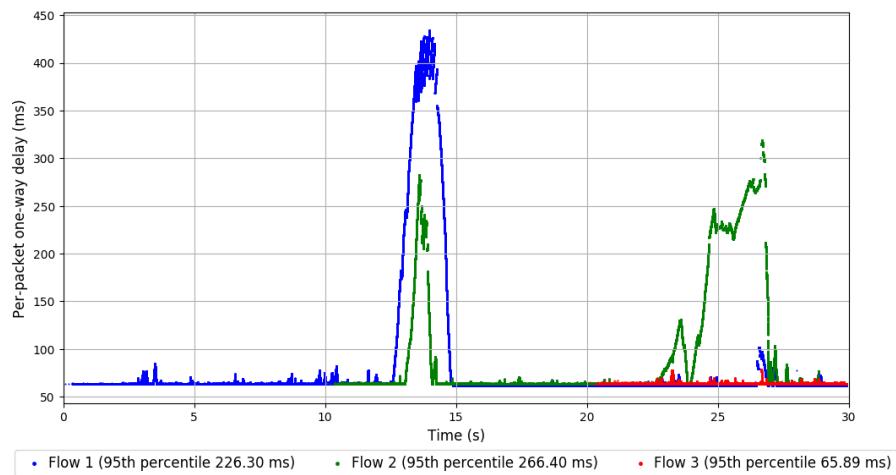
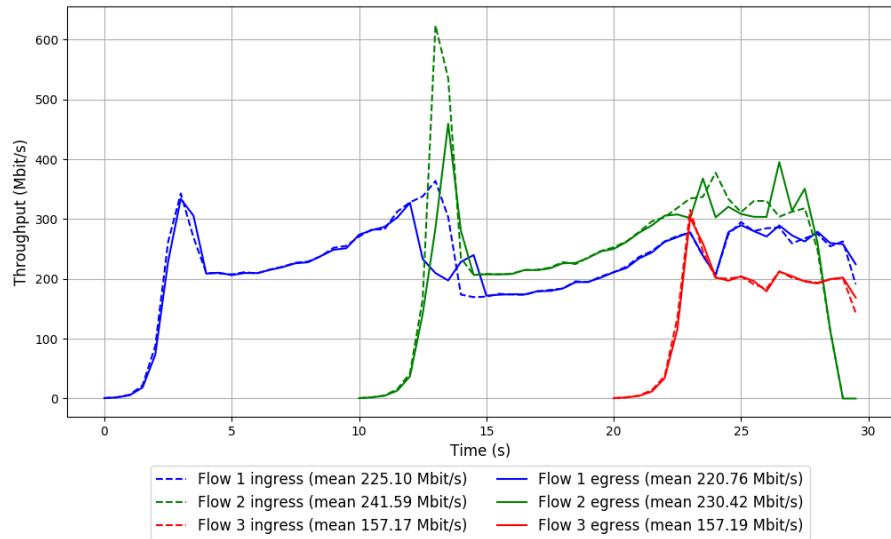
Run 4: Statistics of Vivace-loss

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

End at: 2018-02-01 05:03:32

```
# Below is generated by plot.py at 2018-02-01 09:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.74 Mbit/s
95th percentile per-packet one-way delay: 246.571 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 220.76 Mbit/s
95th percentile per-packet one-way delay: 226.299 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 230.42 Mbit/s
95th percentile per-packet one-way delay: 266.401 ms
Loss rate: 4.63%
-- Flow 3:
Average throughput: 157.19 Mbit/s
95th percentile per-packet one-way delay: 65.888 ms
Loss rate: 0.00%
```

Run 4: Report of Vivace-loss — Data Link



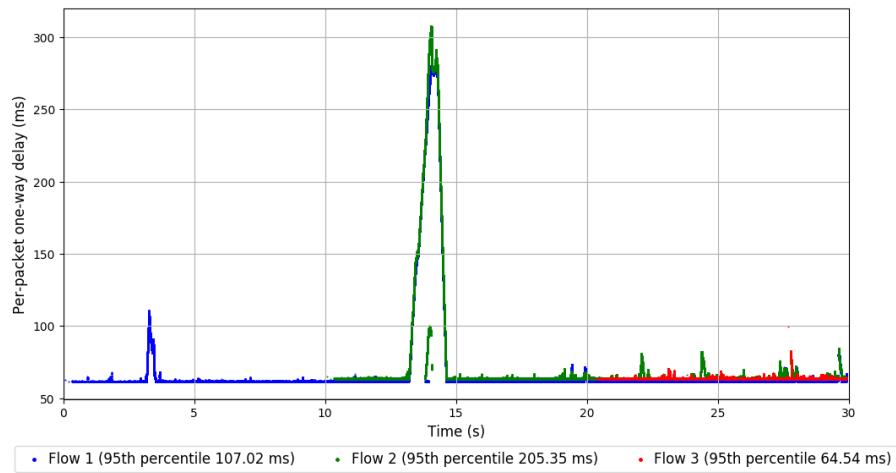
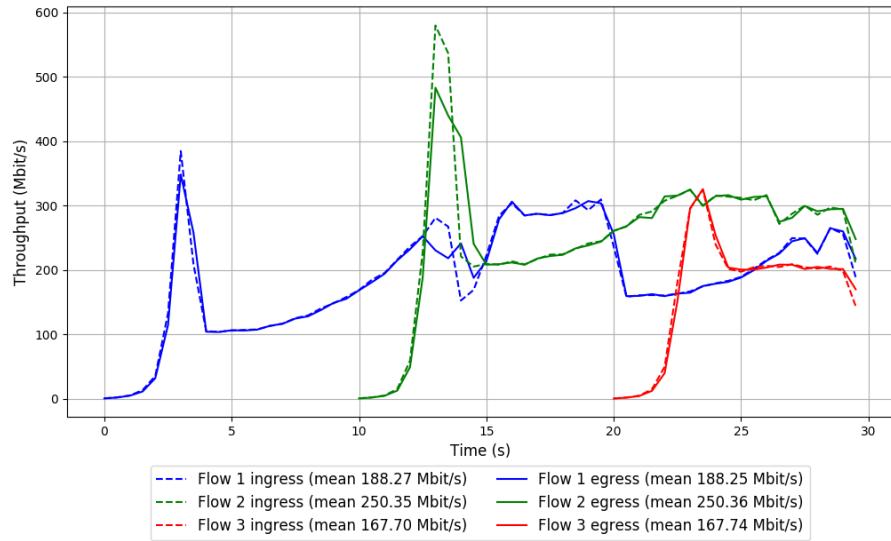
Run 5: Statistics of Vivace-loss

Start at: 2018-02-01 05:19:26

End at: 2018-02-01 05:19:56

```
# Below is generated by plot.py at 2018-02-01 09:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 409.73 Mbit/s
95th percentile per-packet one-way delay: 146.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.25 Mbit/s
95th percentile per-packet one-way delay: 107.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 250.36 Mbit/s
95th percentile per-packet one-way delay: 205.354 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 167.74 Mbit/s
95th percentile per-packet one-way delay: 64.539 ms
Loss rate: 0.00%
```

Run 5: Report of Vivace-loss — Data Link



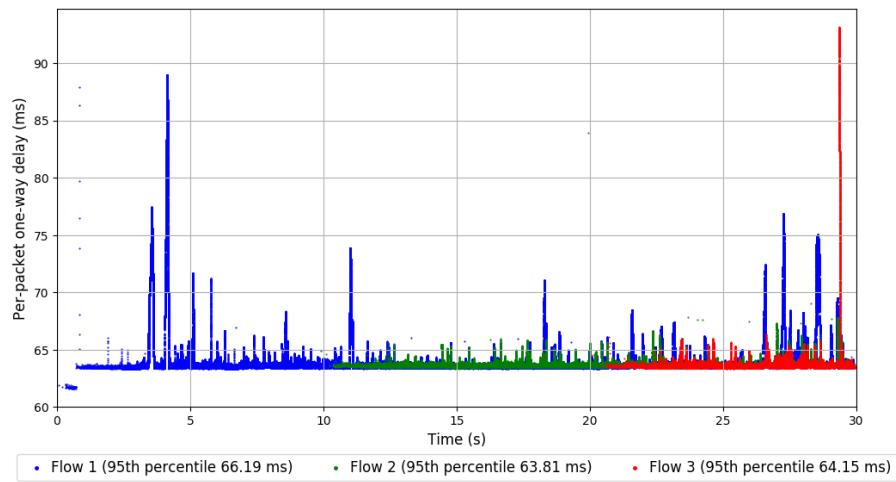
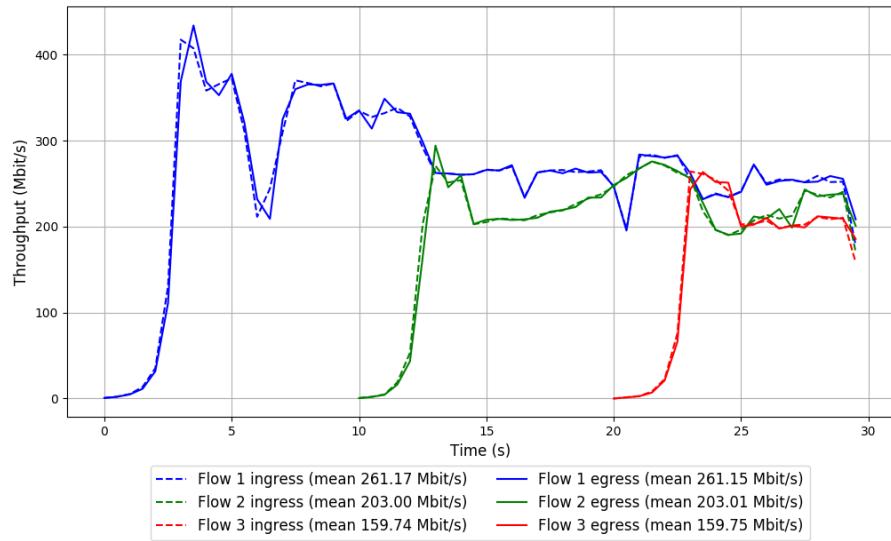
Run 6: Statistics of Vivace-loss

Start at: 2018-02-01 05:35:56

End at: 2018-02-01 05:36:27

```
# Below is generated by plot.py at 2018-02-01 09:59:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 448.40 Mbit/s
95th percentile per-packet one-way delay: 64.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.15 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 203.01 Mbit/s
95th percentile per-packet one-way delay: 63.811 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.75 Mbit/s
95th percentile per-packet one-way delay: 64.149 ms
Loss rate: 0.00%
```

Run 6: Report of Vivace-loss — Data Link



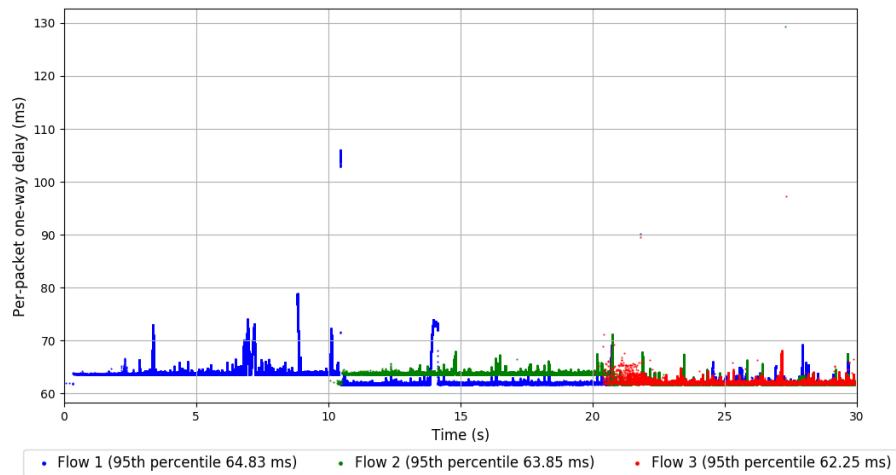
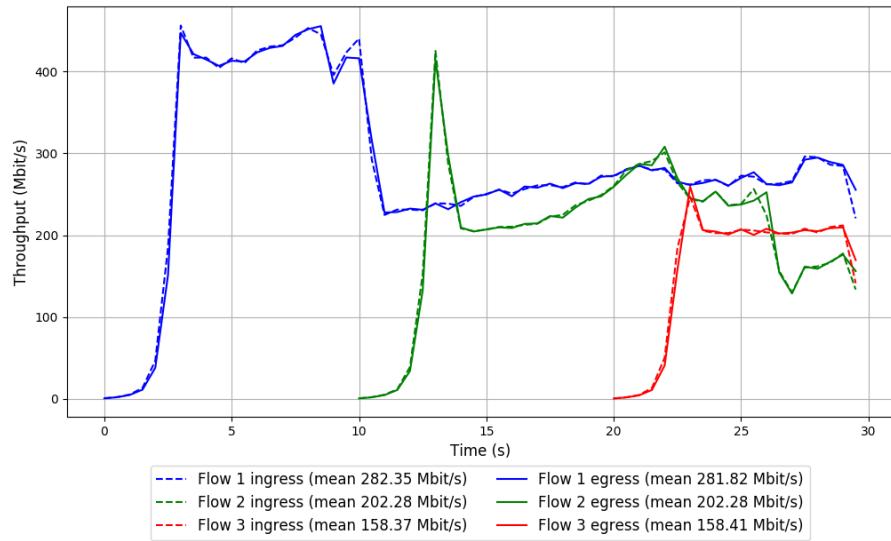
Run 7: Statistics of Vivace-loss

Start at: 2018-02-01 05:52:47

End at: 2018-02-01 05:53:17

```
# Below is generated by plot.py at 2018-02-01 10:02:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 468.28 Mbit/s
95th percentile per-packet one-way delay: 64.104 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 281.82 Mbit/s
95th percentile per-packet one-way delay: 64.827 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 202.28 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.41 Mbit/s
95th percentile per-packet one-way delay: 62.250 ms
Loss rate: 0.00%
```

Run 7: Report of Vivace-loss — Data Link



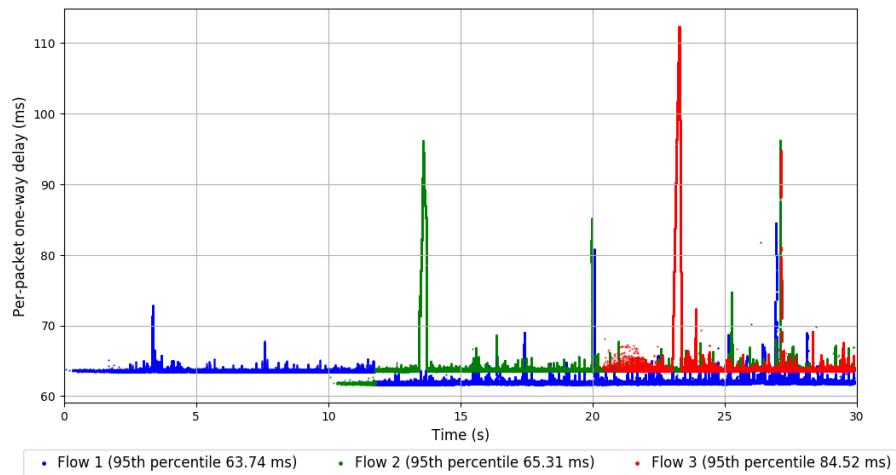
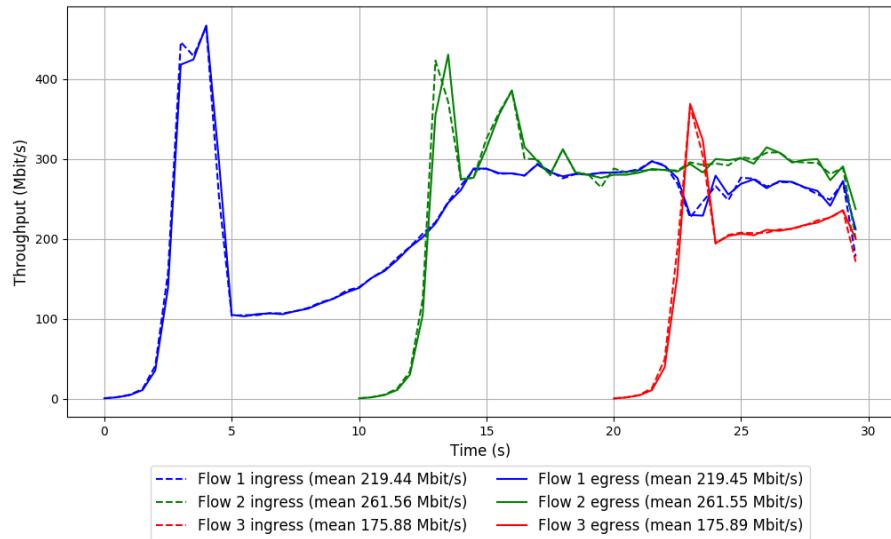
Run 8: Statistics of Vivace-loss

Start at: 2018-02-01 06:09:35

End at: 2018-02-01 06:10:05

```
# Below is generated by plot.py at 2018-02-01 10:02:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 451.10 Mbit/s
95th percentile per-packet one-way delay: 64.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.45 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 261.55 Mbit/s
95th percentile per-packet one-way delay: 65.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 175.89 Mbit/s
95th percentile per-packet one-way delay: 84.523 ms
Loss rate: 0.00%
```

Run 8: Report of Vivace-loss — Data Link



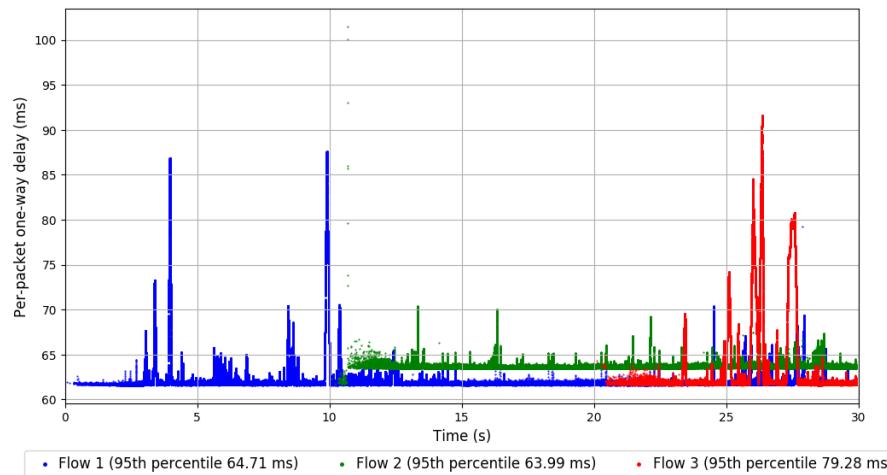
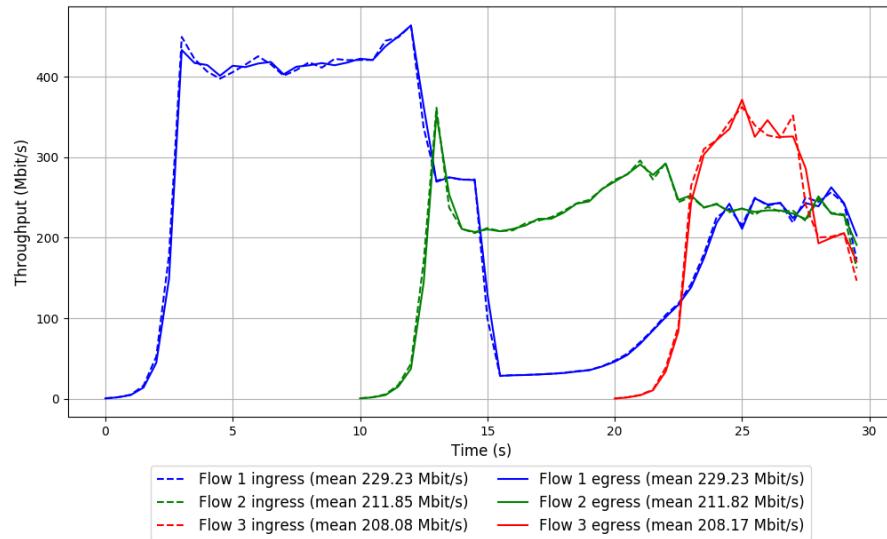
Run 9: Statistics of Vivace-loss

Start at: 2018-02-01 06:26:17

End at: 2018-02-01 06:26:47

```
# Below is generated by plot.py at 2018-02-01 10:03:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.50 Mbit/s
95th percentile per-packet one-way delay: 66.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.23 Mbit/s
95th percentile per-packet one-way delay: 64.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 211.82 Mbit/s
95th percentile per-packet one-way delay: 63.990 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 208.17 Mbit/s
95th percentile per-packet one-way delay: 79.284 ms
Loss rate: 0.00%
```

Run 9: Report of Vivace-loss — Data Link



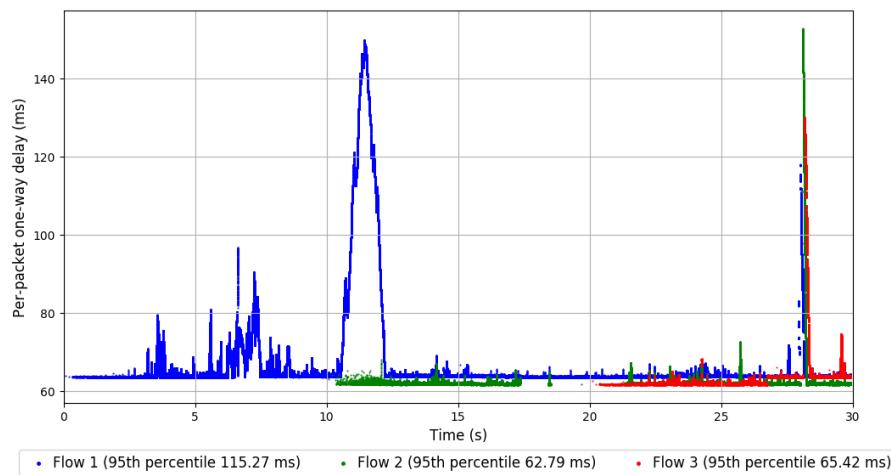
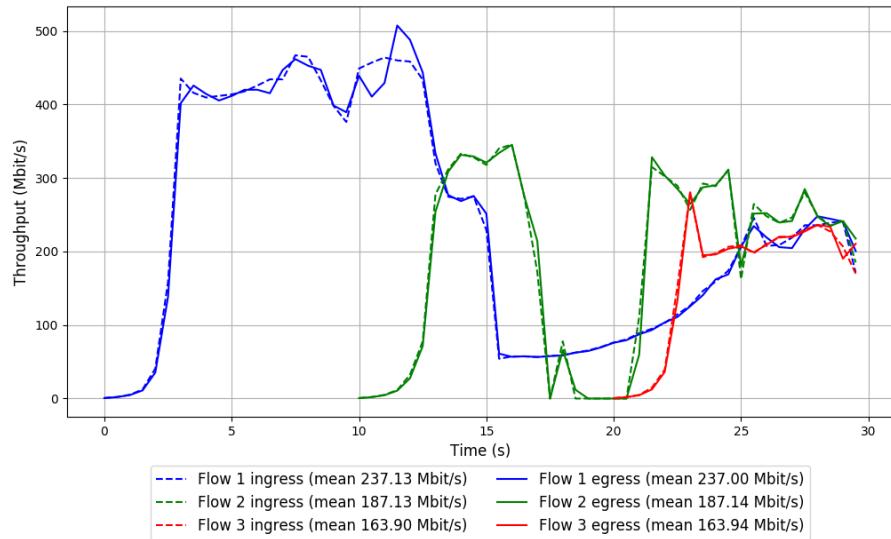
Run 10: Statistics of Vivace-loss

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

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

```
# Below is generated by plot.py at 2018-02-01 10:04:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.20 Mbit/s
95th percentile per-packet one-way delay: 91.593 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 237.00 Mbit/s
95th percentile per-packet one-way delay: 115.271 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 187.14 Mbit/s
95th percentile per-packet one-way delay: 62.794 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 163.94 Mbit/s
95th percentile per-packet one-way delay: 65.415 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-loss — Data Link

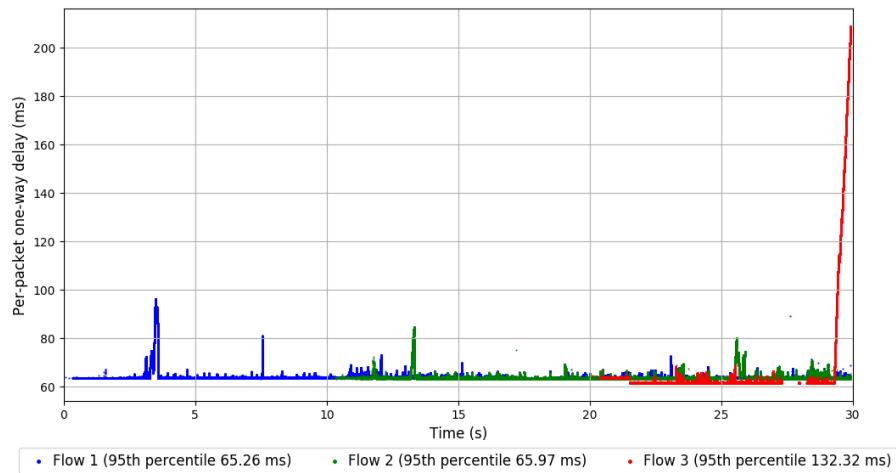
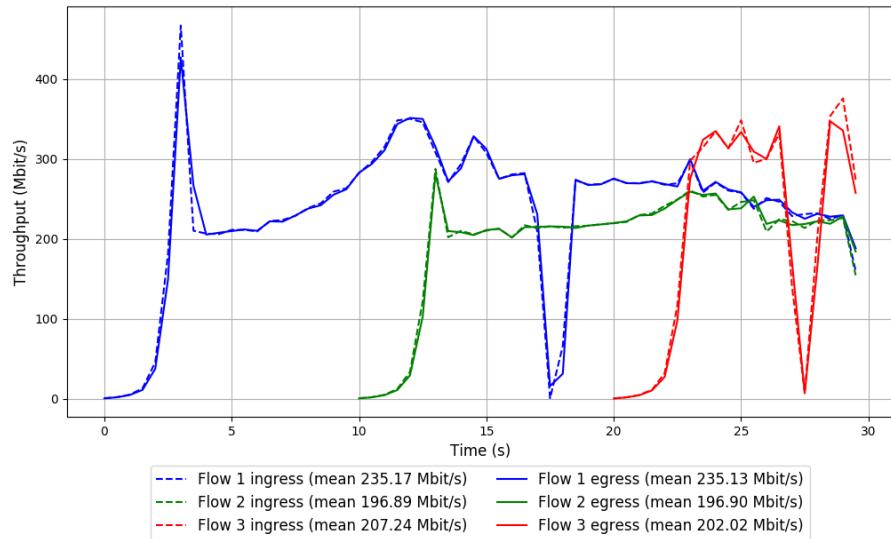


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-01 04:12:56
End at: 2018-02-01 04:13:26

# Below is generated by plot.py at 2018-02-01 10:05:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 432.30 Mbit/s
95th percentile per-packet one-way delay: 65.996 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 235.13 Mbit/s
95th percentile per-packet one-way delay: 65.258 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.90 Mbit/s
95th percentile per-packet one-way delay: 65.970 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.02 Mbit/s
95th percentile per-packet one-way delay: 132.321 ms
Loss rate: 2.52%
```

Run 1: Report of Vivace-LTE — Data Link



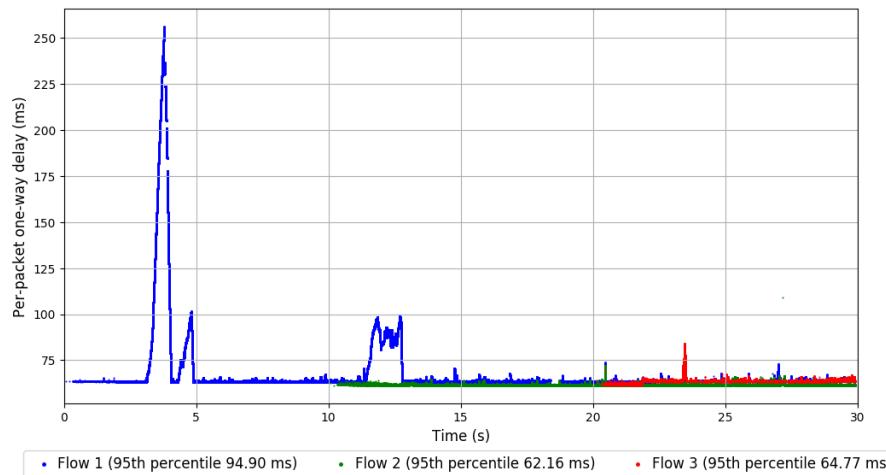
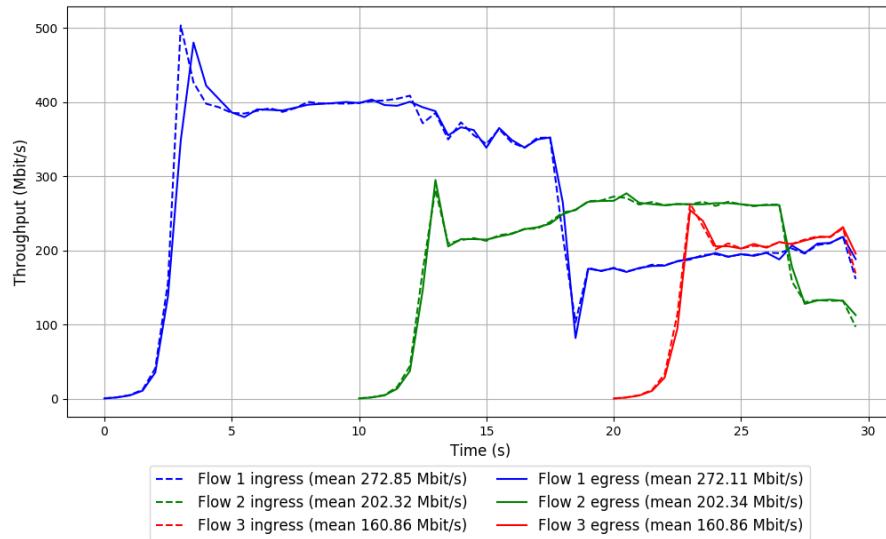
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-01 04:29:25

End at: 2018-02-01 04:29:55

```
# Below is generated by plot.py at 2018-02-01 10:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.52 Mbit/s
95th percentile per-packet one-way delay: 87.729 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 272.11 Mbit/s
95th percentile per-packet one-way delay: 94.897 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 202.34 Mbit/s
95th percentile per-packet one-way delay: 62.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 160.86 Mbit/s
95th percentile per-packet one-way delay: 64.774 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-LTE — Data Link



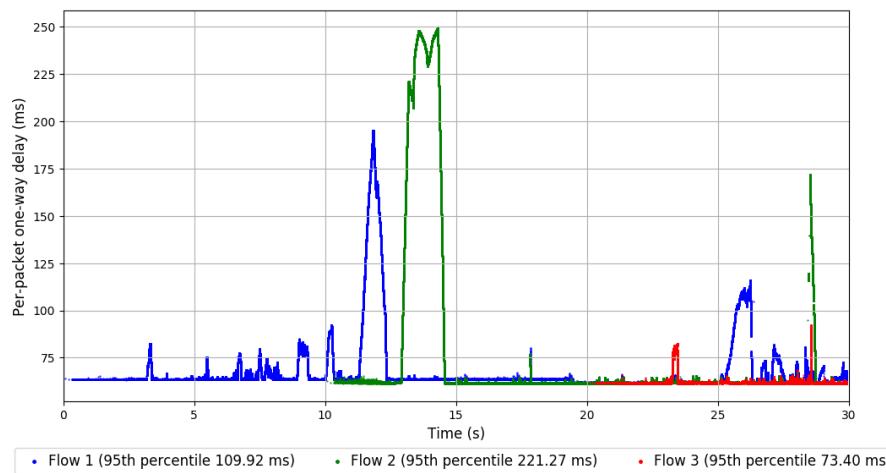
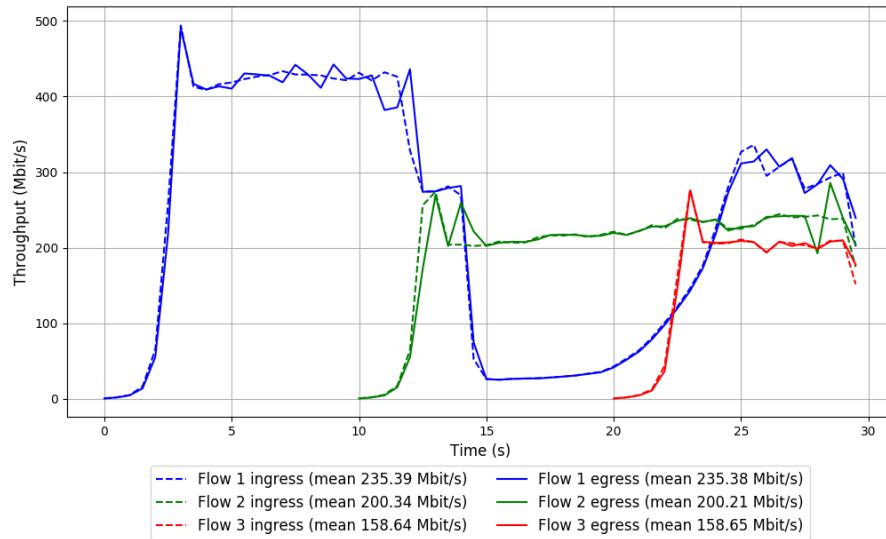
Run 3: Statistics of Vivace-LTE

Start at: 2018-02-01 04:45:38

End at: 2018-02-01 04:46:08

```
# Below is generated by plot.py at 2018-02-01 10:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.71 Mbit/s
95th percentile per-packet one-way delay: 133.835 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 235.38 Mbit/s
95th percentile per-packet one-way delay: 109.921 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.21 Mbit/s
95th percentile per-packet one-way delay: 221.267 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 158.65 Mbit/s
95th percentile per-packet one-way delay: 73.403 ms
Loss rate: 0.00%
```

Run 3: Report of Vivace-LTE — Data Link



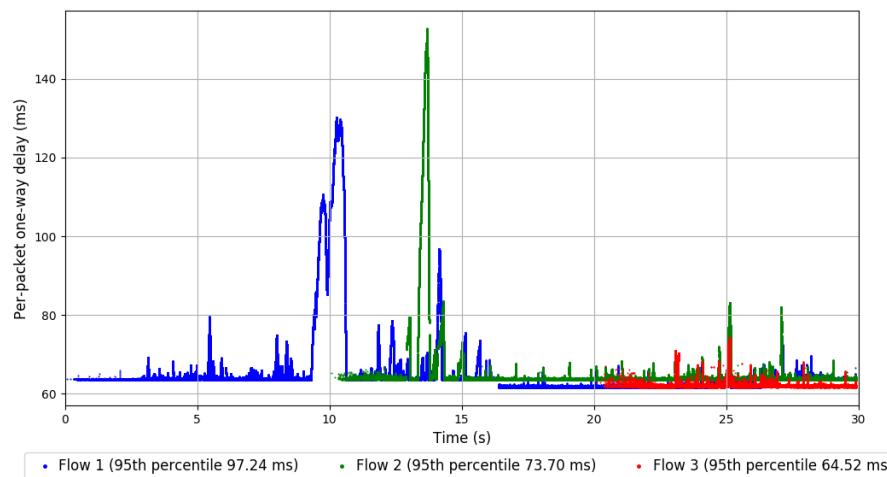
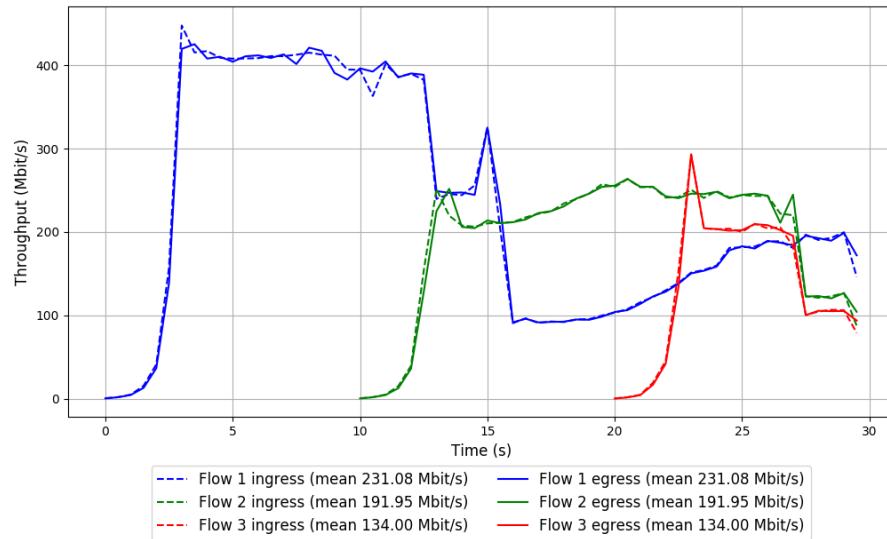
Run 4: Statistics of Vivace-LTE

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

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

```
# Below is generated by plot.py at 2018-02-01 10:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.70 Mbit/s
95th percentile per-packet one-way delay: 80.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.08 Mbit/s
95th percentile per-packet one-way delay: 97.241 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.95 Mbit/s
95th percentile per-packet one-way delay: 73.700 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 134.00 Mbit/s
95th percentile per-packet one-way delay: 64.522 ms
Loss rate: 0.00%
```

Run 4: Report of Vivace-LTE — Data Link



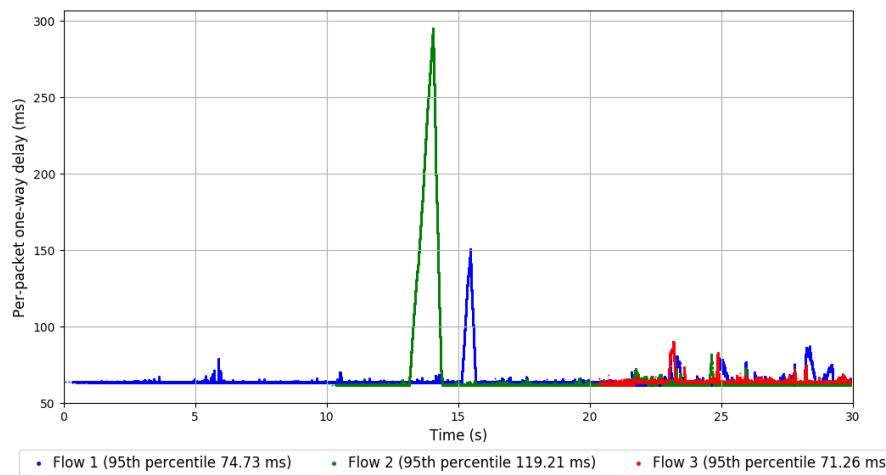
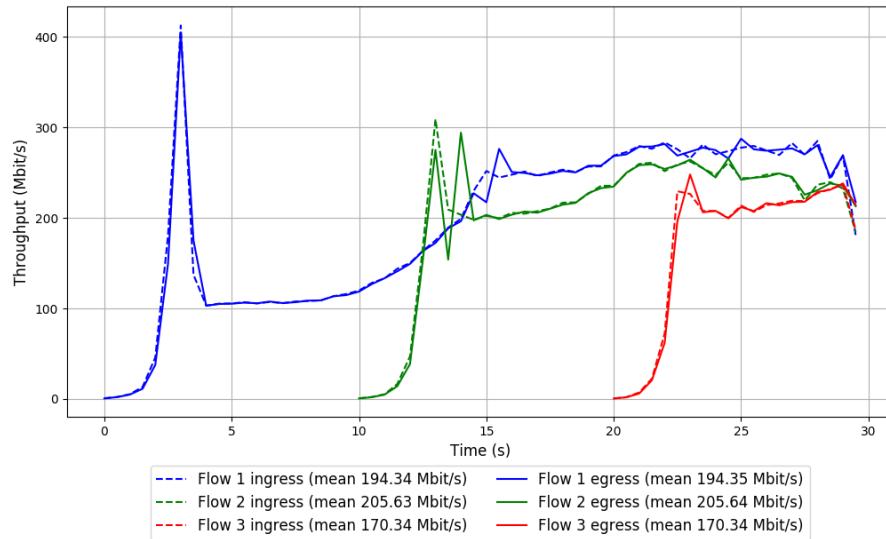
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-01 05:18:15

End at: 2018-02-01 05:18:46

```
# Below is generated by plot.py at 2018-02-01 10:09:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.04 Mbit/s
95th percentile per-packet one-way delay: 76.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.35 Mbit/s
95th percentile per-packet one-way delay: 74.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 205.64 Mbit/s
95th percentile per-packet one-way delay: 119.210 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.34 Mbit/s
95th percentile per-packet one-way delay: 71.257 ms
Loss rate: 0.00%
```

Run 5: Report of Vivace-LTE — Data Link



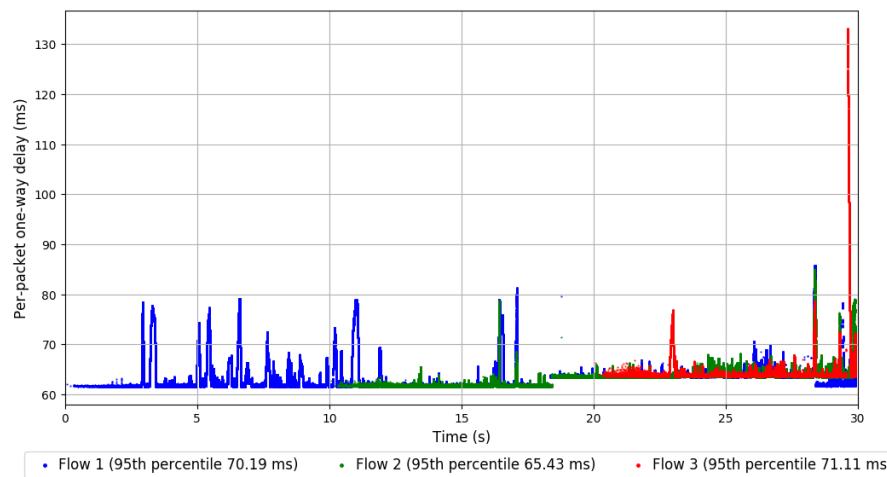
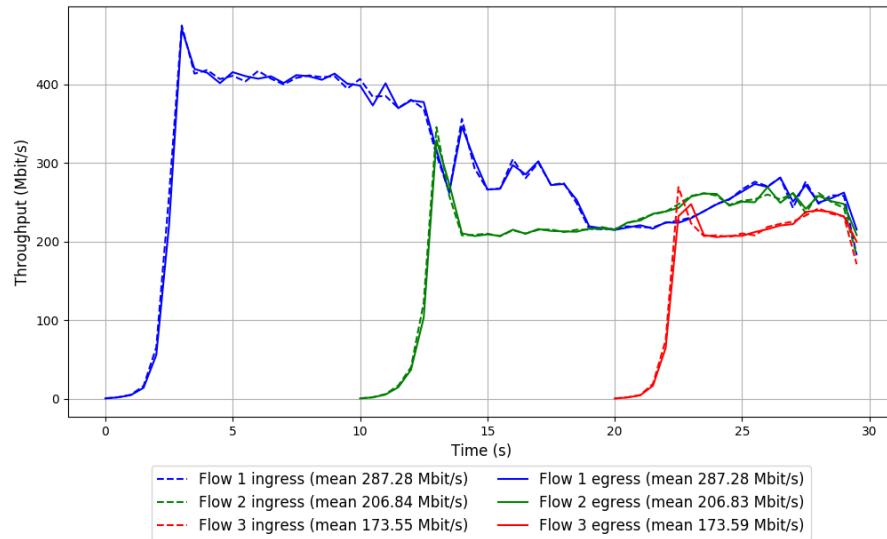
Run 6: Statistics of Vivace-LTE

Start at: 2018-02-01 05:34:39

End at: 2018-02-01 05:35:09

```
# Below is generated by plot.py at 2018-02-01 10:11:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 481.93 Mbit/s
95th percentile per-packet one-way delay: 68.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 287.28 Mbit/s
95th percentile per-packet one-way delay: 70.185 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.83 Mbit/s
95th percentile per-packet one-way delay: 65.434 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 173.59 Mbit/s
95th percentile per-packet one-way delay: 71.113 ms
Loss rate: 0.00%
```

Run 6: Report of Vivace-LTE — Data Link



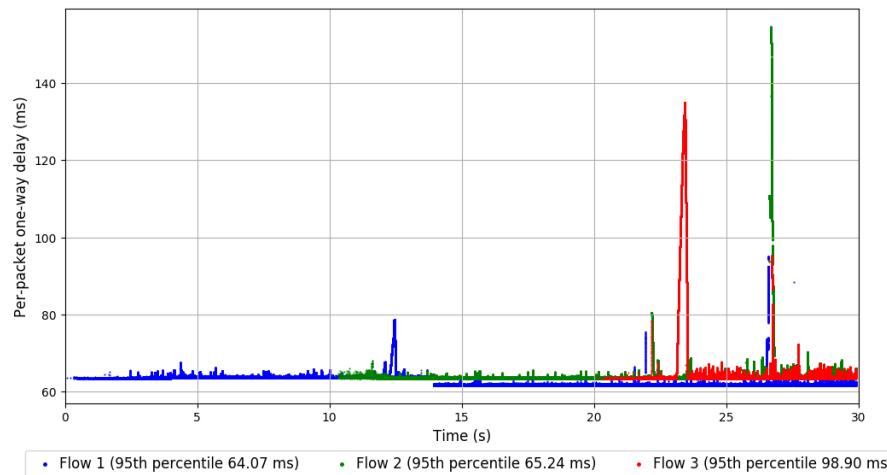
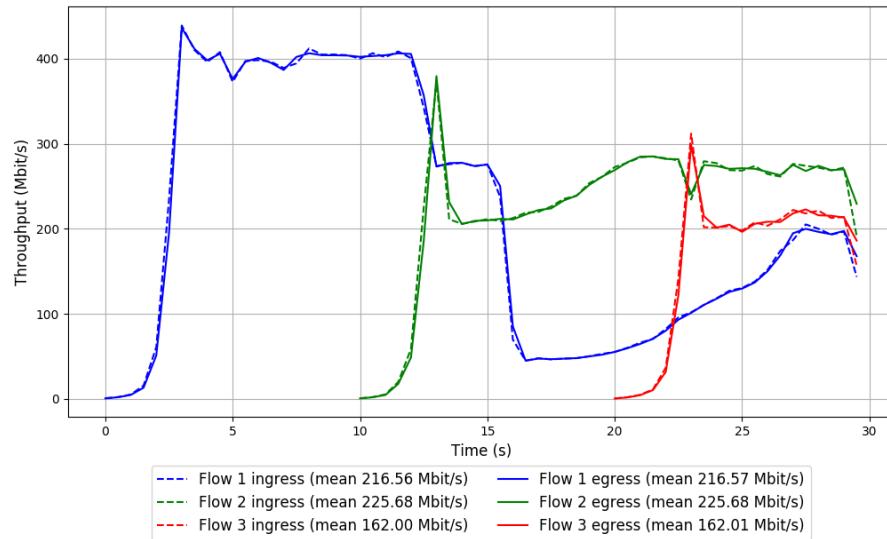
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-01 05:51:33

End at: 2018-02-01 05:52:03

```
# Below is generated by plot.py at 2018-02-01 10:11:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.86 Mbit/s
95th percentile per-packet one-way delay: 65.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.57 Mbit/s
95th percentile per-packet one-way delay: 64.073 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 225.68 Mbit/s
95th percentile per-packet one-way delay: 65.242 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 162.01 Mbit/s
95th percentile per-packet one-way delay: 98.896 ms
Loss rate: 0.00%
```

Run 7: Report of Vivace-LTE — Data Link



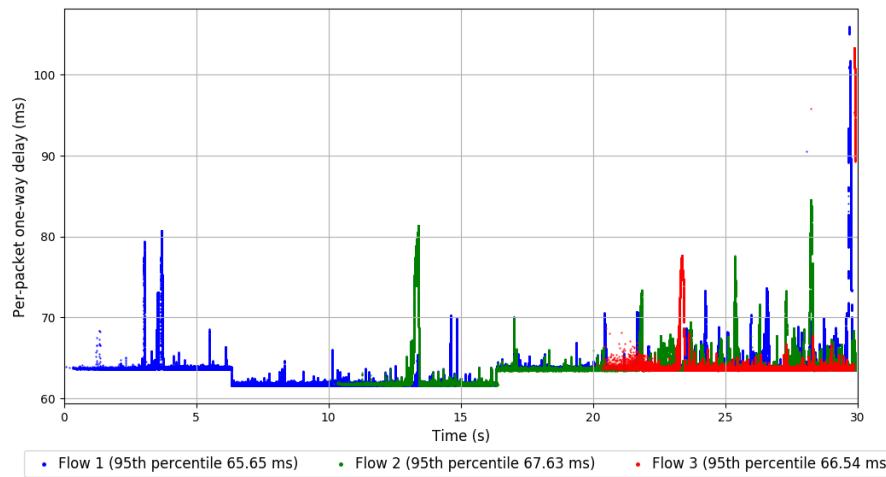
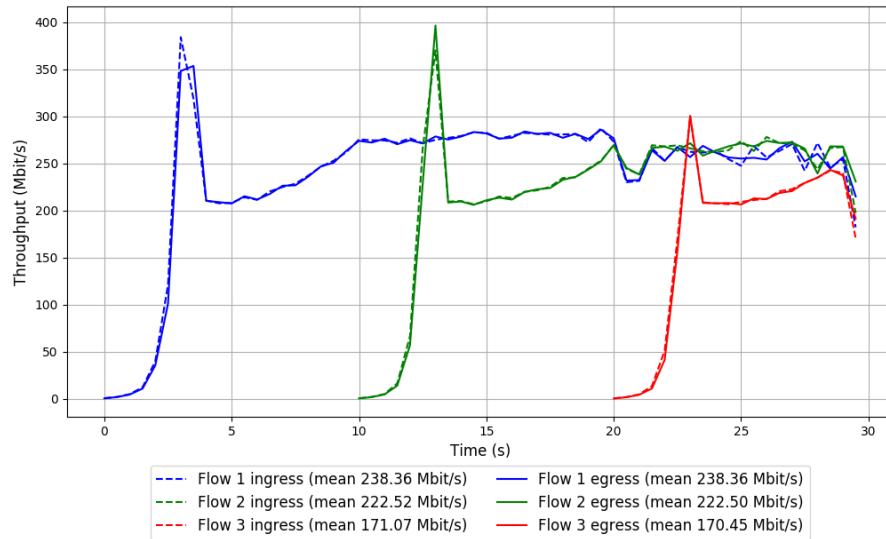
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-01 06:08:21

End at: 2018-02-01 06:08:51

```
# Below is generated by plot.py at 2018-02-01 10:11:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.29 Mbit/s
95th percentile per-packet one-way delay: 66.437 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 238.36 Mbit/s
95th percentile per-packet one-way delay: 65.646 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.50 Mbit/s
95th percentile per-packet one-way delay: 67.628 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.45 Mbit/s
95th percentile per-packet one-way delay: 66.539 ms
Loss rate: 0.34%
```

Run 8: Report of Vivace-LTE — Data Link



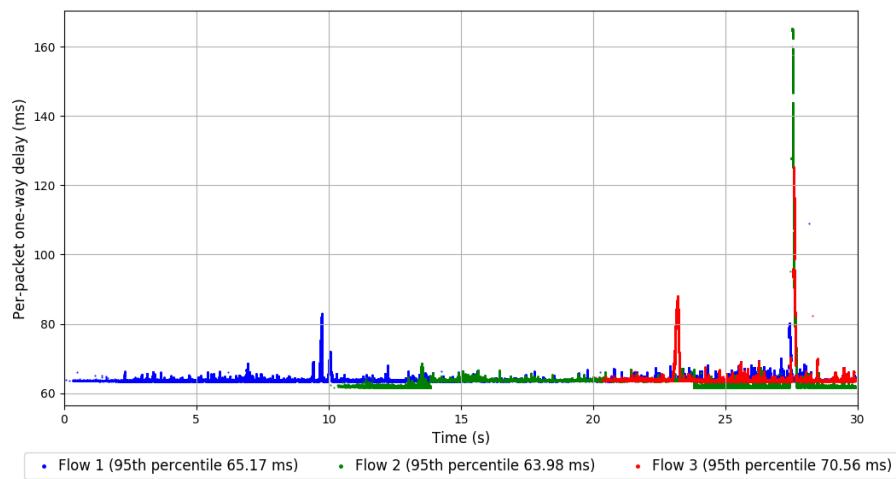
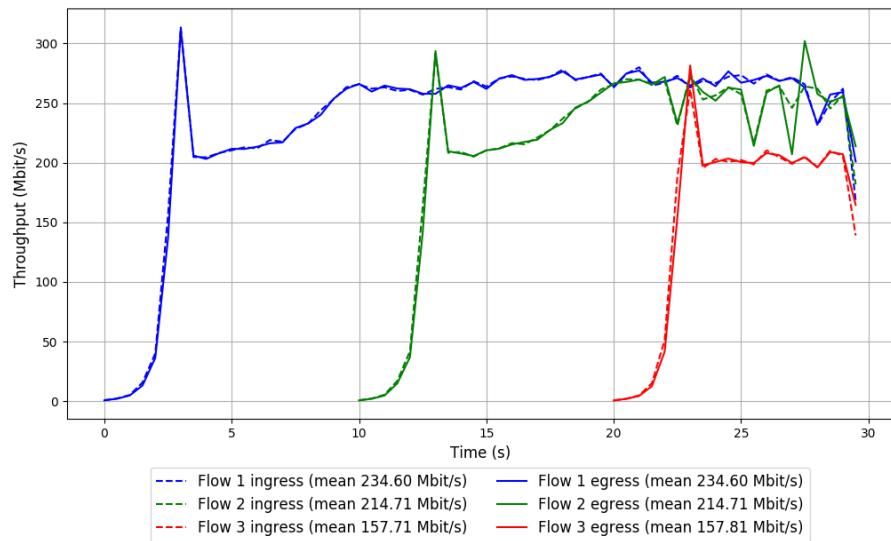
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-01 06:25:03

End at: 2018-02-01 06:25:33

```
# Below is generated by plot.py at 2018-02-01 10:11:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 429.05 Mbit/s
95th percentile per-packet one-way delay: 65.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.60 Mbit/s
95th percentile per-packet one-way delay: 65.174 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 214.71 Mbit/s
95th percentile per-packet one-way delay: 63.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.81 Mbit/s
95th percentile per-packet one-way delay: 70.556 ms
Loss rate: 0.00%
```

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-01 06:41:46

End at: 2018-02-01 06:42:16

```
# Below is generated by plot.py at 2018-02-01 10:11:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.31 Mbit/s
95th percentile per-packet one-way delay: 76.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 280.55 Mbit/s
95th percentile per-packet one-way delay: 87.568 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.27 Mbit/s
95th percentile per-packet one-way delay: 64.002 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 62.463 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

