

Pantheon Report

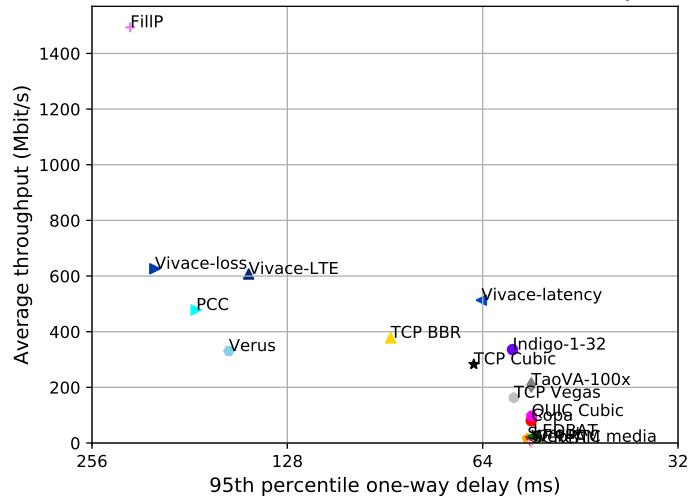
Generated at 2018-02-14 13:50:46 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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

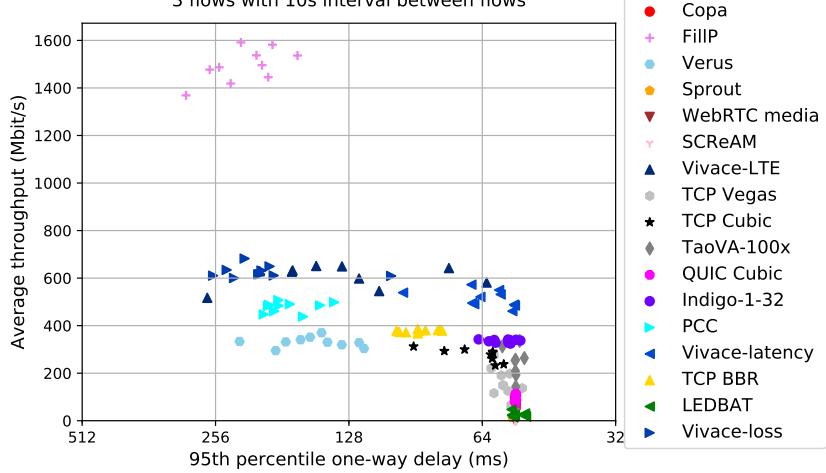
Git summary:

```
branch: master @ 2efdadc57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
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 @ f1a14bf7e749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efef6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



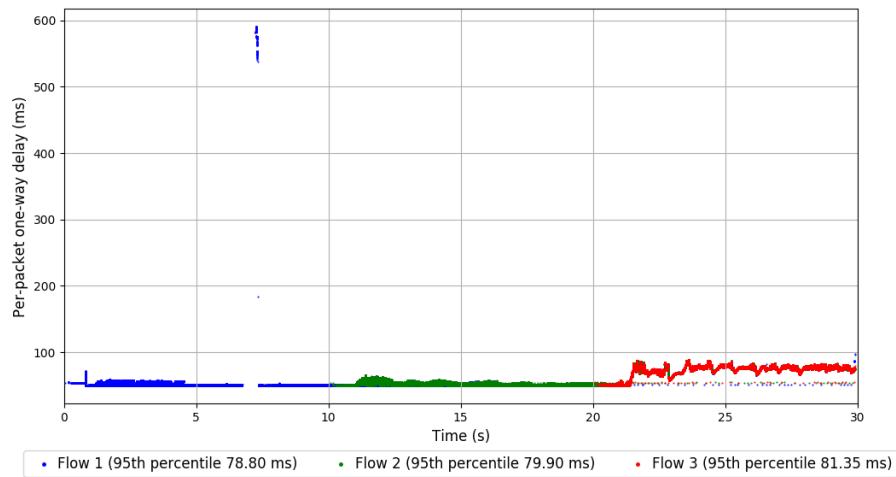
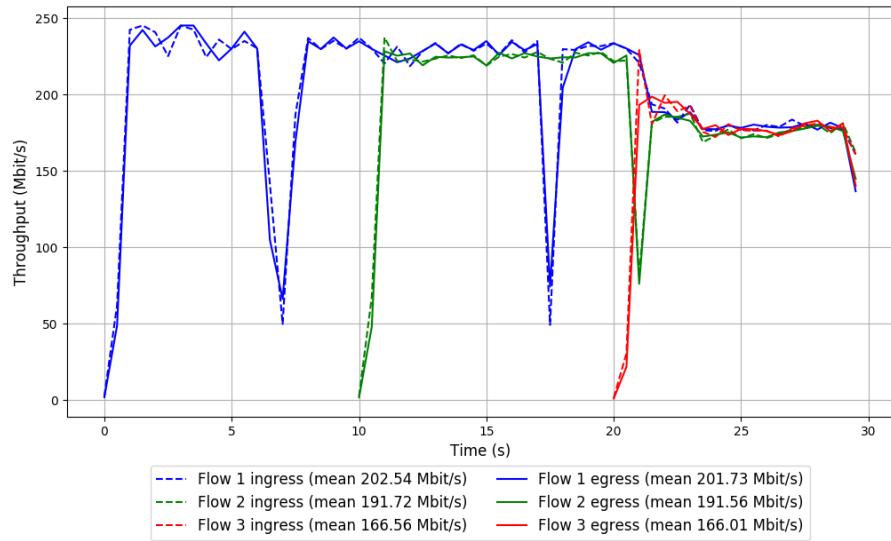
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	200.71	187.38	159.94	86.05	88.92	92.84	0.46	0.61	1.43
TCP Cubic		142.12	141.56	143.64	64.82	65.17	66.70	0.45	0.70	1.26
LEDBAT		13.38	13.54	8.46	53.85	52.88	52.44	0.92	1.06	2.14
PCC		451.18	27.09	27.28	177.25	174.47	176.20	1.38	1.54	2.43
QUIC Cubic		51.32	52.10	33.85	52.76	52.80	52.50	0.50	0.69	0.89
SCReAM		0.21	0.21	0.22	52.83	51.65	53.10	0.27	0.49	1.10
WebRTC media		2.38	1.46	0.63	53.62	52.50	53.24	0.47	0.63	1.32
Sprout		7.80	7.71	7.49	54.59	54.31	54.12	0.60	0.63	1.20
TaoVA-100x		144.54	94.51	70.47	53.40	53.81	53.78	0.24	0.59	1.09
TCP Vegas		89.17	70.96	80.41	57.11	56.32	56.30	0.38	0.52	1.17
Verus		202.78	139.13	111.51	152.47	150.49	175.40	1.01	0.89	2.55
Copa		39.91	39.35	42.61	53.14	53.83	53.58	0.17	0.32	1.00
FillP		787.60	724.19	685.75	206.19	226.26	220.26	8.97	11.40	13.57
Indigo-1-32		179.55	164.57	145.47	56.43	57.74	59.71	0.35	0.50	1.16
Vivace-latency		315.09	259.64	81.08	66.26	62.49	68.23	0.37	0.57	2.39
Vivace-loss		355.62	286.12	249.43	201.46	173.15	148.23	3.51	2.23	3.53
Vivace-LTE		332.57	300.02	232.16	139.43	109.17	135.05	1.51	0.88	2.08

```
Run 1: Statistics of TCP BBR

Start at: 2018-02-14 05:47:09
End at: 2018-02-14 05:47:39

# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.65 Mbit/s
95th percentile per-packet one-way delay: 79.758 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 201.73 Mbit/s
95th percentile per-packet one-way delay: 78.803 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 191.56 Mbit/s
95th percentile per-packet one-way delay: 79.901 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 166.01 Mbit/s
95th percentile per-packet one-way delay: 81.353 ms
Loss rate: 1.36%
```

Run 1: Report of TCP BBR — Data Link



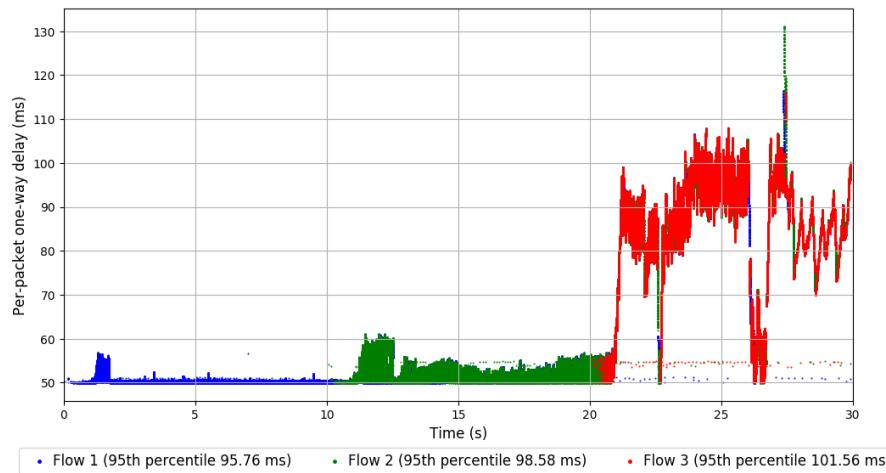
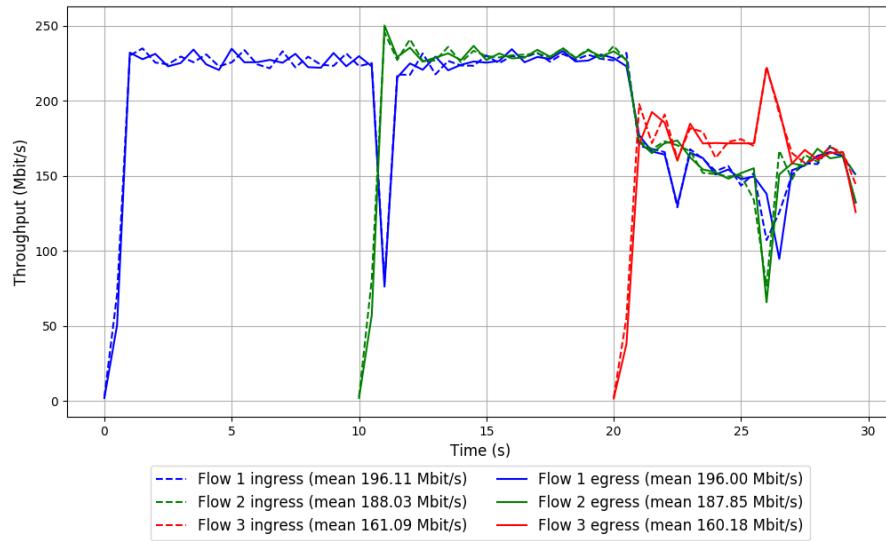
Run 2: Statistics of TCP BBR

Start at: 2018-02-14 06:04:32

End at: 2018-02-14 06:05:02

```
# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.54 Mbit/s
95th percentile per-packet one-way delay: 98.579 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 196.00 Mbit/s
95th percentile per-packet one-way delay: 95.763 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 187.85 Mbit/s
95th percentile per-packet one-way delay: 98.582 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 160.18 Mbit/s
95th percentile per-packet one-way delay: 101.565 ms
Loss rate: 1.48%
```

Run 2: Report of TCP BBR — Data Link



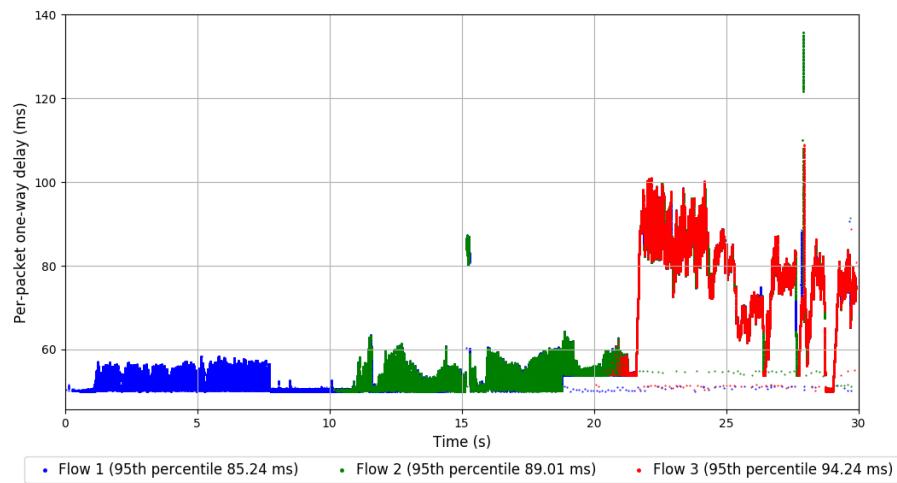
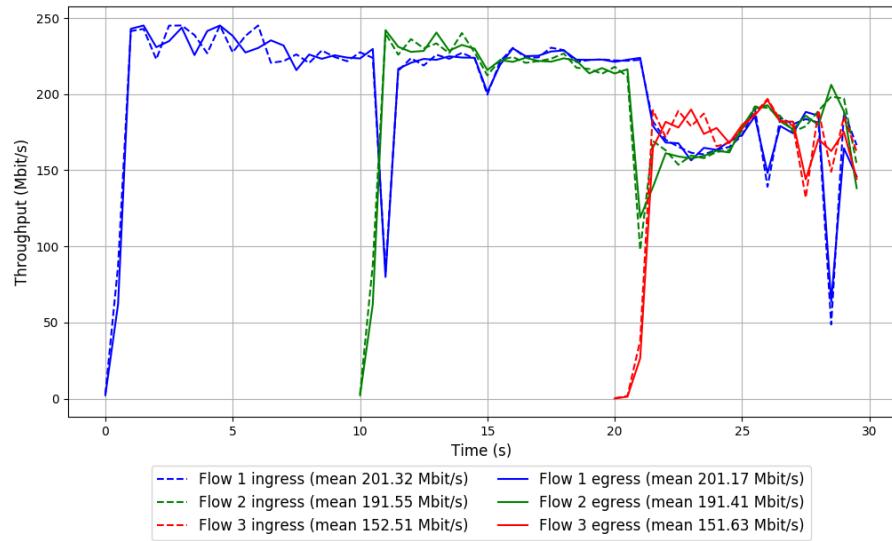
Run 3: Statistics of TCP BBR

Start at: 2018-02-14 06:22:02

End at: 2018-02-14 06:22:32

```
# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.33 Mbit/s
95th percentile per-packet one-way delay: 89.064 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 201.17 Mbit/s
95th percentile per-packet one-way delay: 85.237 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 191.41 Mbit/s
95th percentile per-packet one-way delay: 89.010 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 151.63 Mbit/s
95th percentile per-packet one-way delay: 94.237 ms
Loss rate: 1.56%
```

Run 3: Report of TCP BBR — Data Link



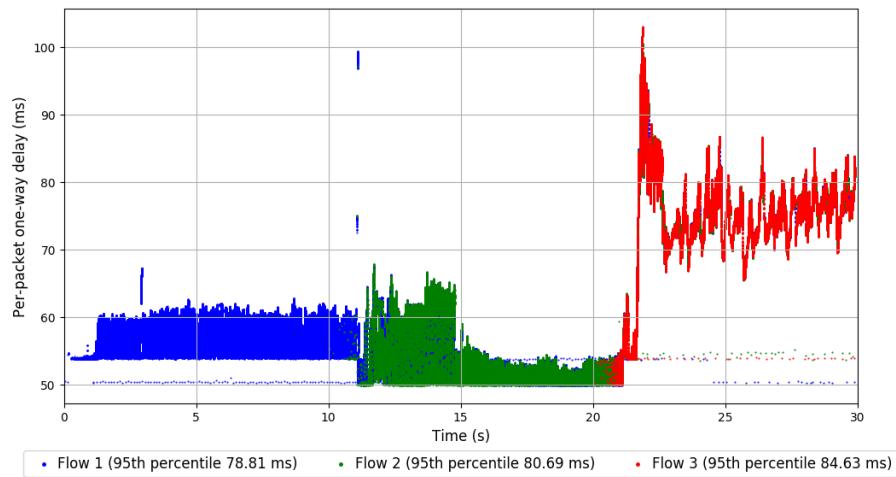
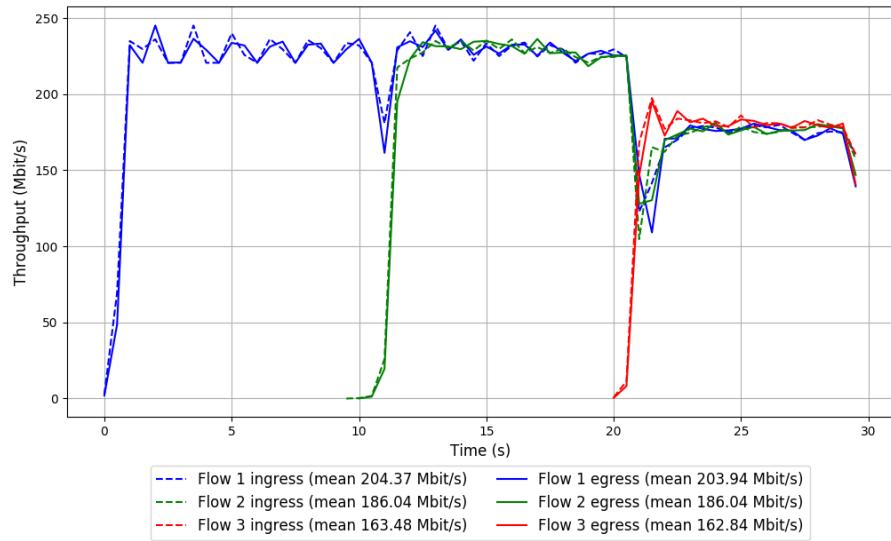
Run 4: Statistics of TCP BBR

Start at: 2018-02-14 06:39:29

End at: 2018-02-14 06:39:59

```
# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.24 Mbit/s
95th percentile per-packet one-way delay: 80.605 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 203.94 Mbit/s
95th percentile per-packet one-way delay: 78.812 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 186.04 Mbit/s
95th percentile per-packet one-way delay: 80.691 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 162.84 Mbit/s
95th percentile per-packet one-way delay: 84.627 ms
Loss rate: 1.41%
```

Run 4: Report of TCP BBR — Data Link



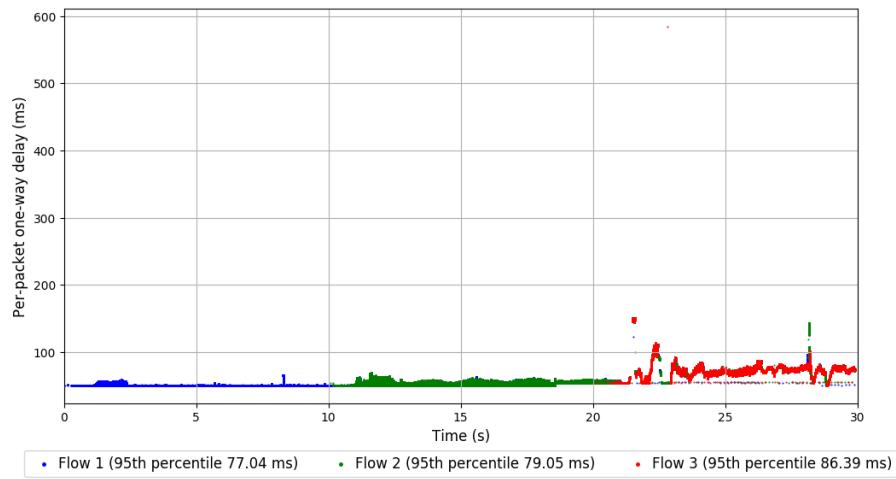
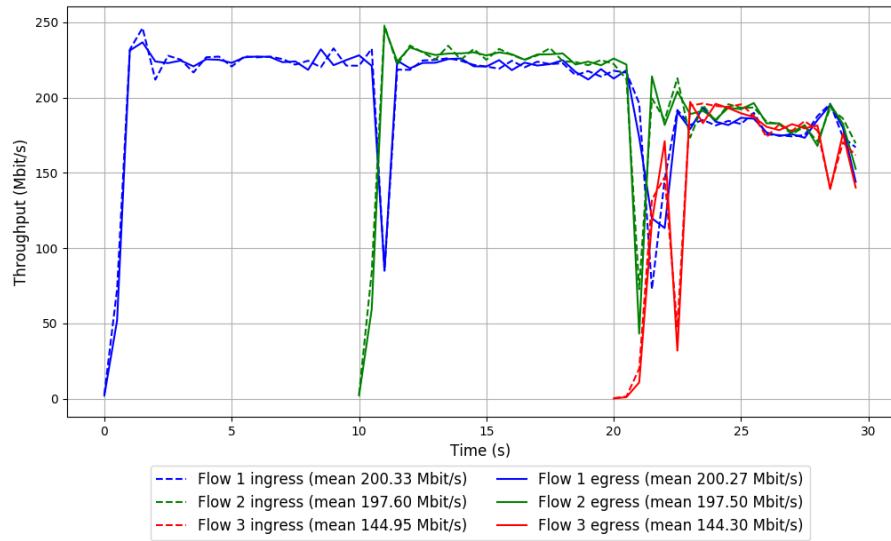
Run 5: Statistics of TCP BBR

Start at: 2018-02-14 06:56:52

End at: 2018-02-14 06:57:22

```
# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.94 Mbit/s
95th percentile per-packet one-way delay: 78.901 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 200.27 Mbit/s
95th percentile per-packet one-way delay: 77.037 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 197.50 Mbit/s
95th percentile per-packet one-way delay: 79.047 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 144.30 Mbit/s
95th percentile per-packet one-way delay: 86.393 ms
Loss rate: 1.49%
```

Run 5: Report of TCP BBR — Data Link



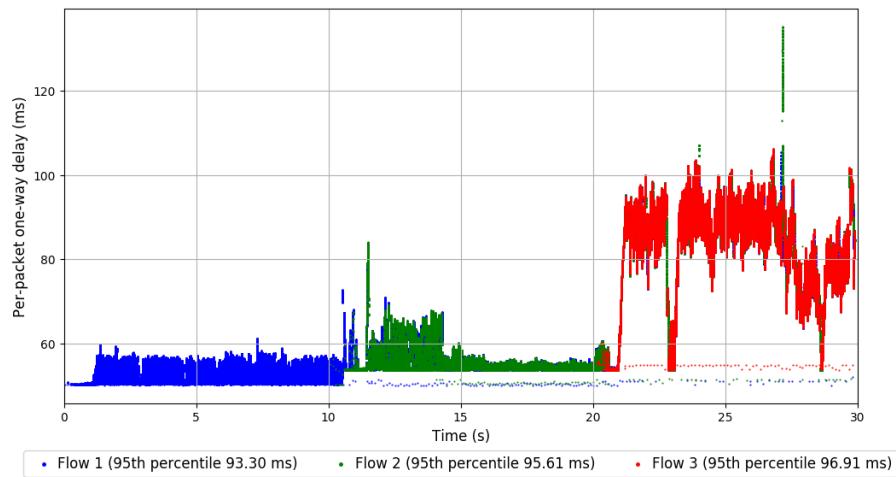
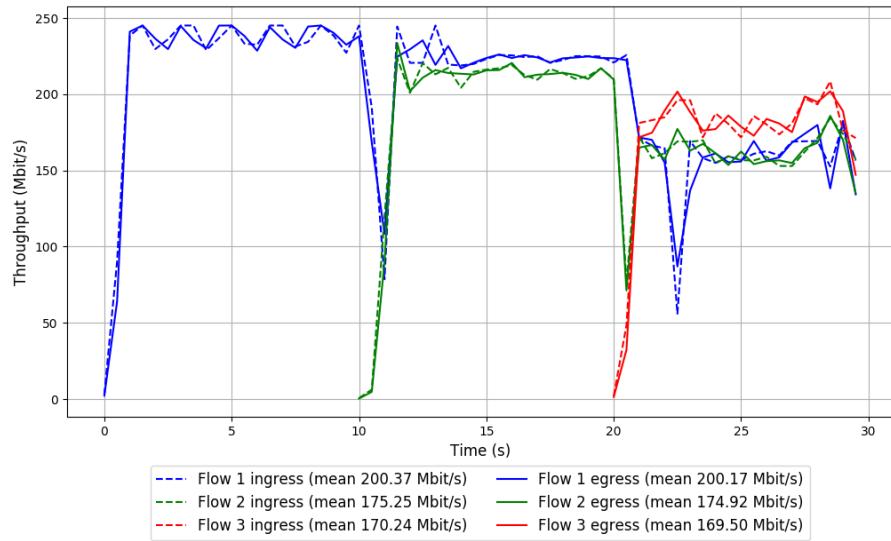
Run 6: Statistics of TCP BBR

Start at: 2018-02-14 07:14:30

End at: 2018-02-14 07:15:00

```
# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.05 Mbit/s
95th percentile per-packet one-way delay: 95.180 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 200.17 Mbit/s
95th percentile per-packet one-way delay: 93.303 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 174.92 Mbit/s
95th percentile per-packet one-way delay: 95.606 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 169.50 Mbit/s
95th percentile per-packet one-way delay: 96.907 ms
Loss rate: 1.45%
```

Run 6: Report of TCP BBR — Data Link



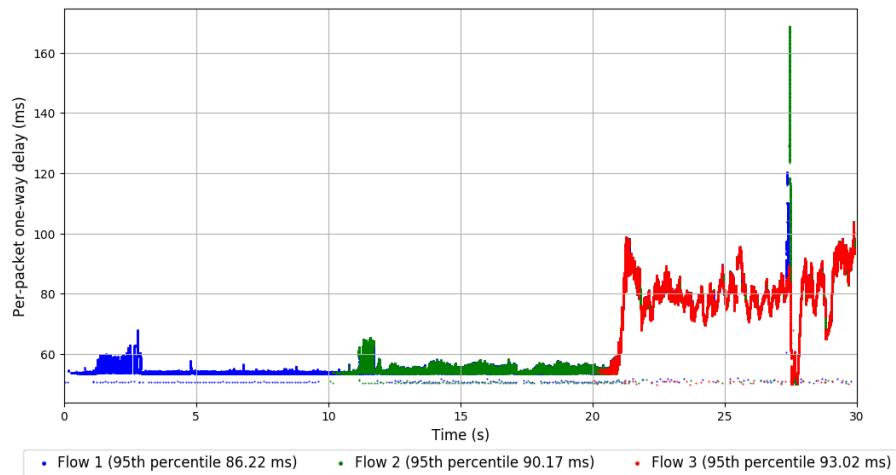
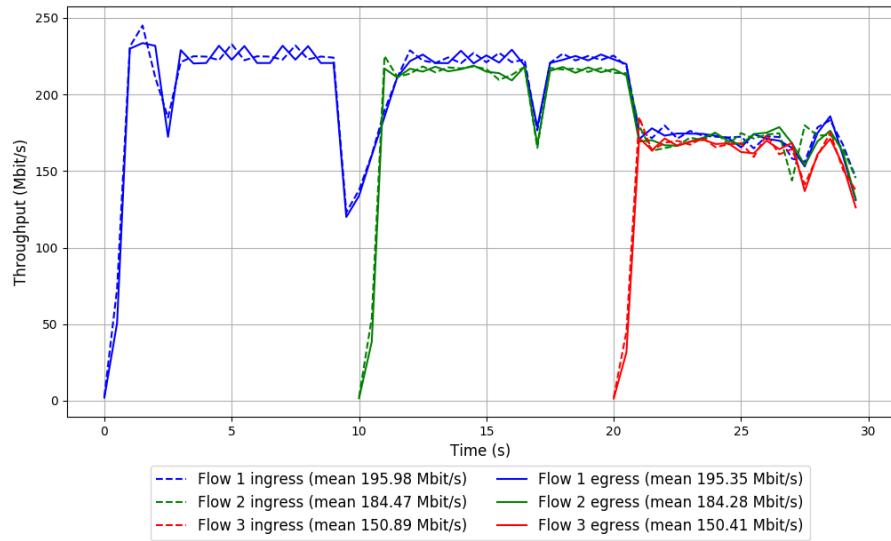
Run 7: Statistics of TCP BBR

Start at: 2018-02-14 07:31:33

End at: 2018-02-14 07:32:03

```
# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.31 Mbit/s
95th percentile per-packet one-way delay: 89.529 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 195.35 Mbit/s
95th percentile per-packet one-way delay: 86.218 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 184.28 Mbit/s
95th percentile per-packet one-way delay: 90.165 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 150.41 Mbit/s
95th percentile per-packet one-way delay: 93.018 ms
Loss rate: 1.34%
```

Run 7: Report of TCP BBR — Data Link



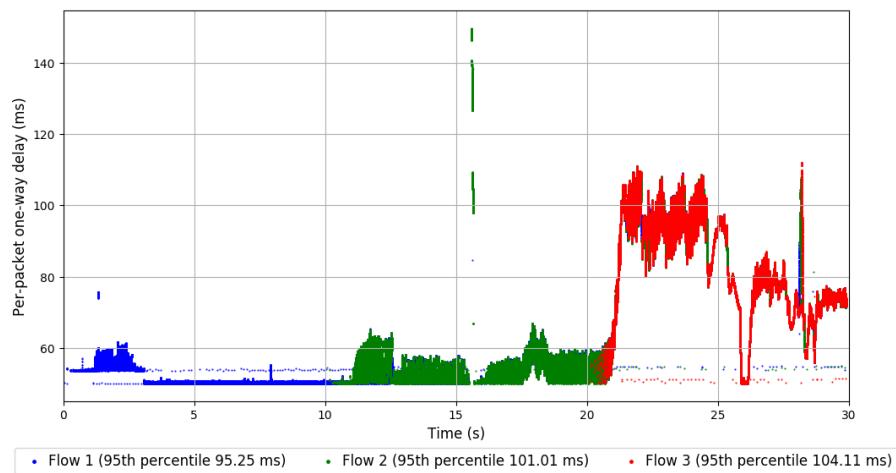
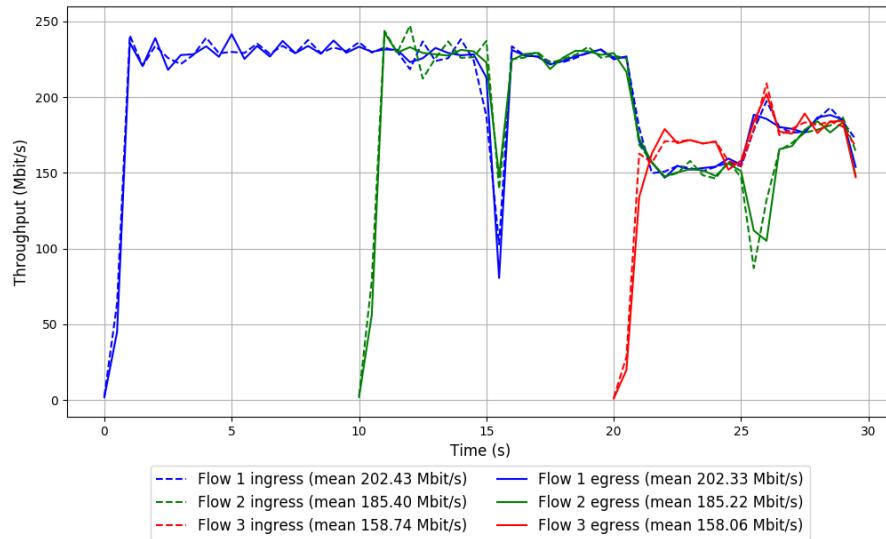
Run 8: Statistics of TCP BBR

Start at: 2018-02-14 07:48:57

End at: 2018-02-14 07:49:27

```
# Below is generated by plot.py at 2018-02-14 11:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.45 Mbit/s
95th percentile per-packet one-way delay: 99.955 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 202.33 Mbit/s
95th percentile per-packet one-way delay: 95.251 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 185.22 Mbit/s
95th percentile per-packet one-way delay: 101.010 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 158.06 Mbit/s
95th percentile per-packet one-way delay: 104.105 ms
Loss rate: 1.45%
```

Run 8: Report of TCP BBR — Data Link



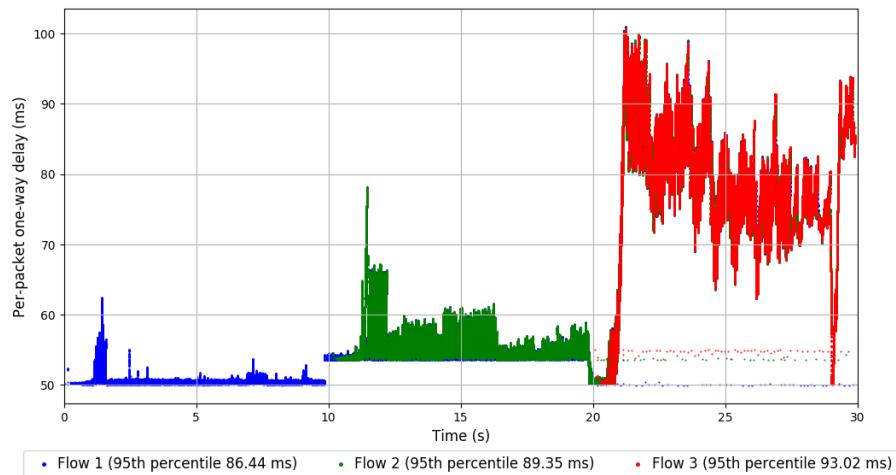
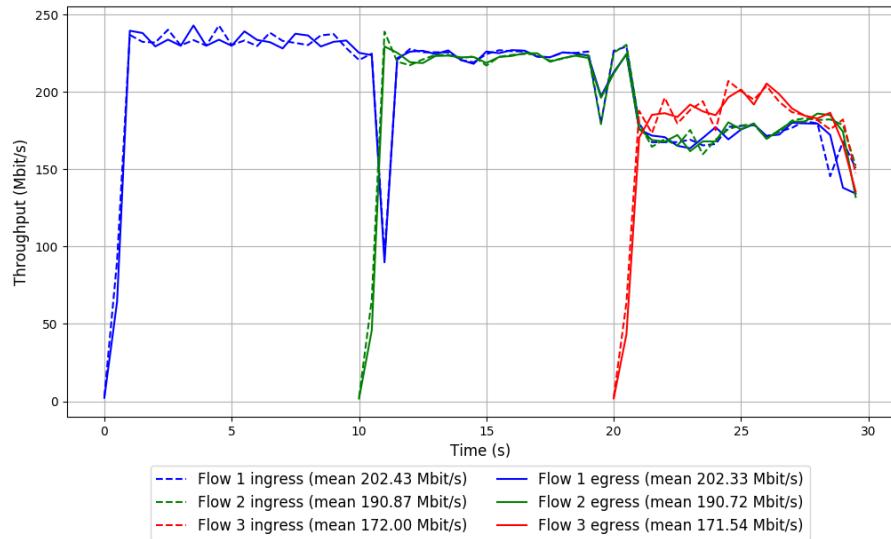
Run 9: Statistics of TCP BBR

Start at: 2018-02-14 08:06:20

End at: 2018-02-14 08:06:50

```
# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.55 Mbit/s
95th percentile per-packet one-way delay: 89.552 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 202.33 Mbit/s
95th percentile per-packet one-way delay: 86.445 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 190.72 Mbit/s
95th percentile per-packet one-way delay: 89.349 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 171.54 Mbit/s
95th percentile per-packet one-way delay: 93.024 ms
Loss rate: 1.33%
```

Run 9: Report of TCP BBR — Data Link



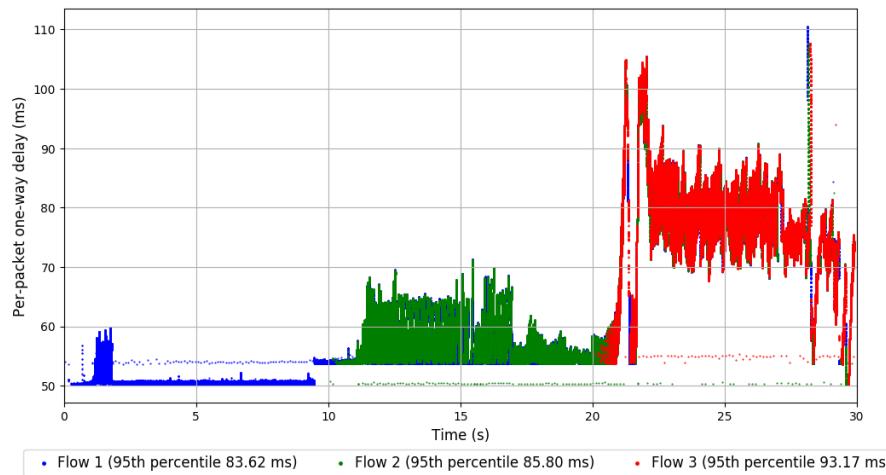
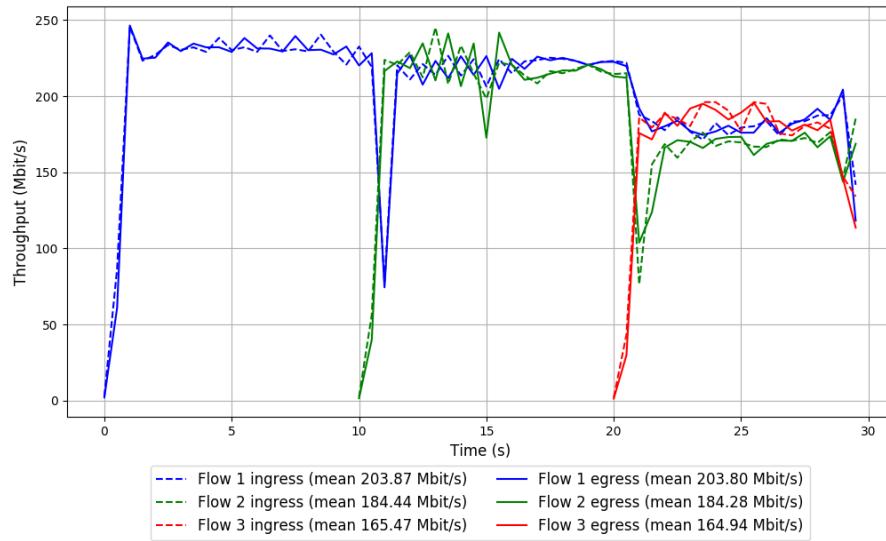
Run 10: Statistics of TCP BBR

Start at: 2018-02-14 08:23:31

End at: 2018-02-14 08:24:01

```
# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.57 Mbit/s
95th percentile per-packet one-way delay: 85.975 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 203.80 Mbit/s
95th percentile per-packet one-way delay: 83.622 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 184.28 Mbit/s
95th percentile per-packet one-way delay: 85.799 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 164.94 Mbit/s
95th percentile per-packet one-way delay: 93.165 ms
Loss rate: 1.38%
```

Run 10: Report of TCP BBR — Data Link

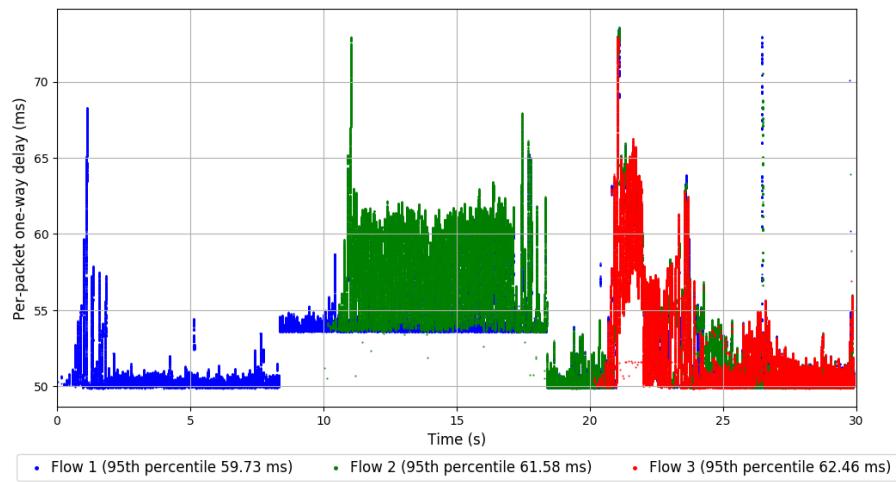
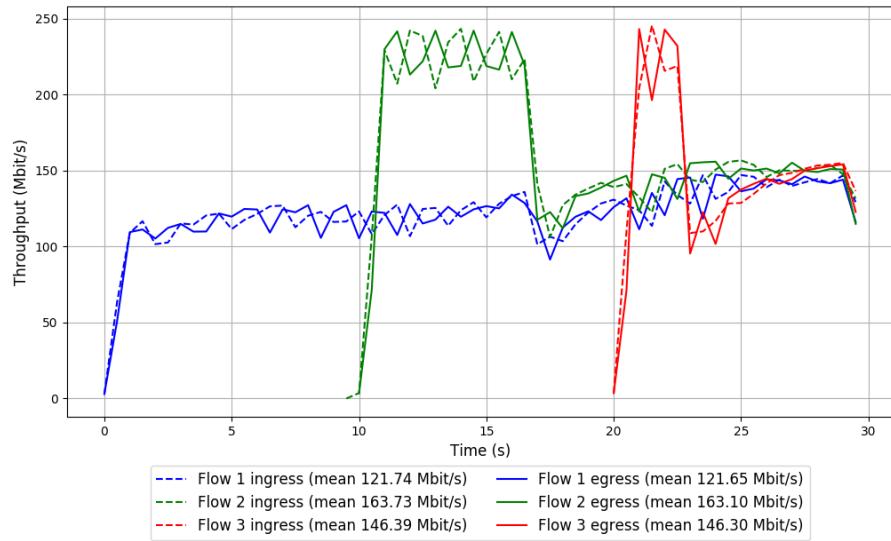


```
Run 1: Statistics of TCP Cubic

Start at: 2018-02-14 05:38:52
End at: 2018-02-14 05:39:22

# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.38 Mbit/s
95th percentile per-packet one-way delay: 61.304 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 121.65 Mbit/s
95th percentile per-packet one-way delay: 59.735 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 163.10 Mbit/s
95th percentile per-packet one-way delay: 61.581 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 146.30 Mbit/s
95th percentile per-packet one-way delay: 62.458 ms
Loss rate: 1.07%
```

Run 1: Report of TCP Cubic — Data Link



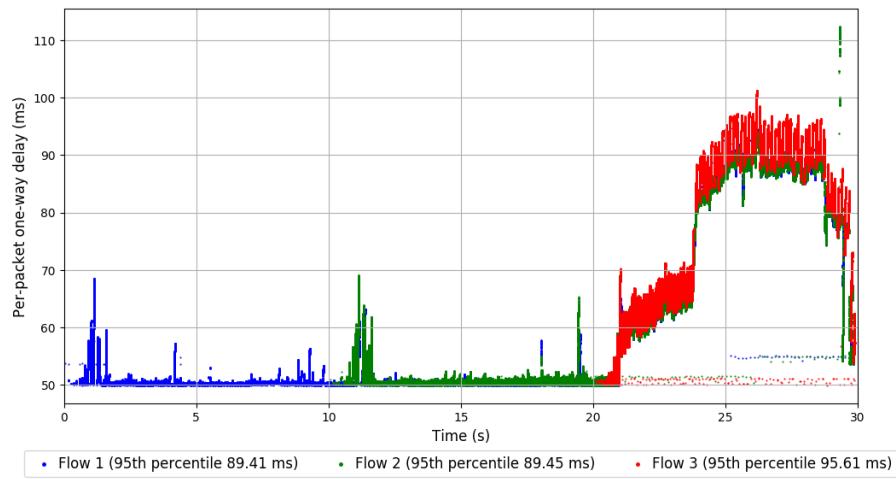
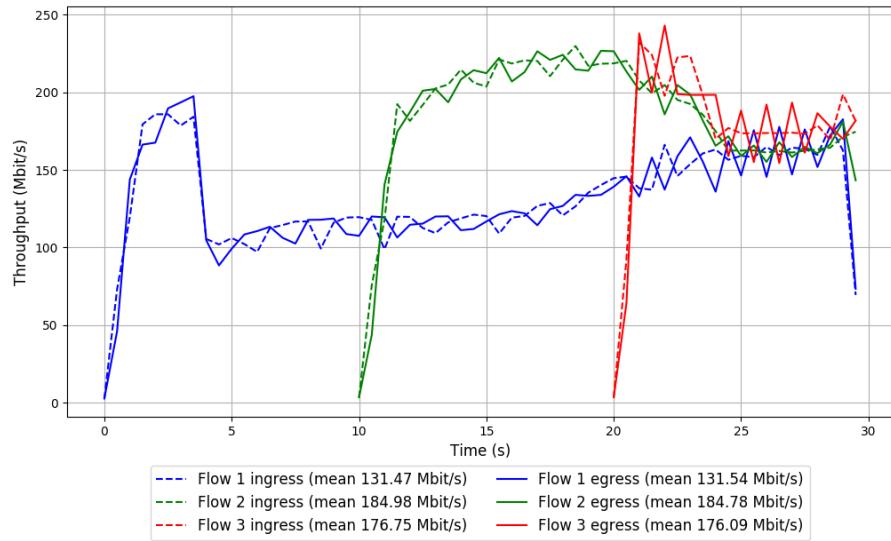
```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2018-02-14 05:56:14
```

```
End at: 2018-02-14 05:56:44
```

```
# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.31 Mbit/s
95th percentile per-packet one-way delay: 91.462 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 131.54 Mbit/s
95th percentile per-packet one-way delay: 89.407 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 184.78 Mbit/s
95th percentile per-packet one-way delay: 89.449 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 176.09 Mbit/s
95th percentile per-packet one-way delay: 95.608 ms
Loss rate: 1.40%
```

Run 2: Report of TCP Cubic — Data Link

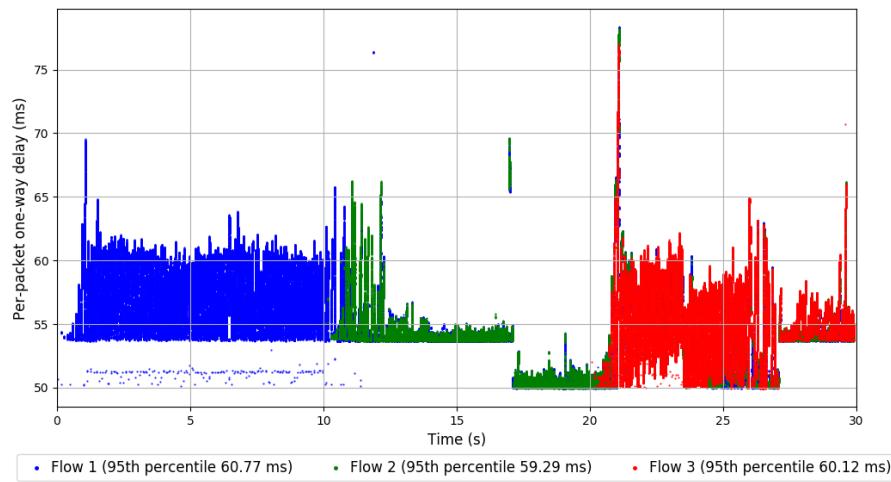
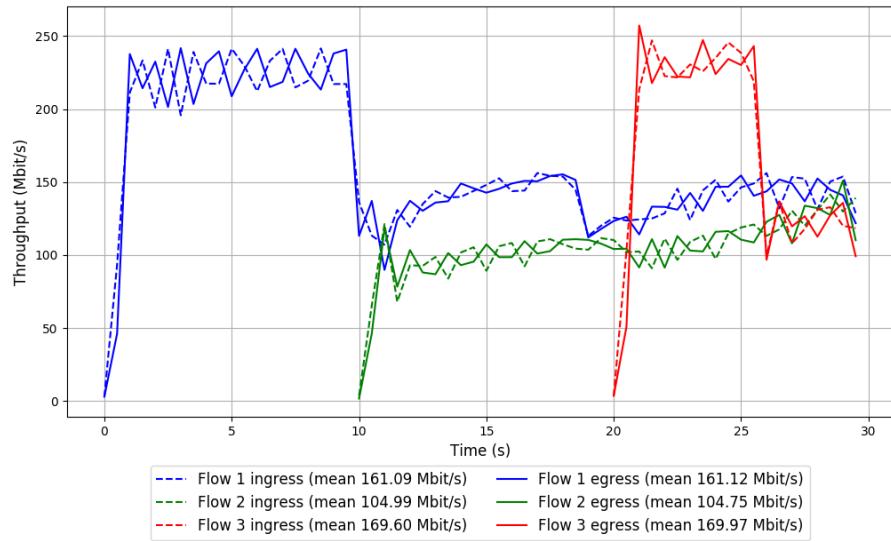


```
Run 3: Statistics of TCP Cubic

Start at: 2018-02-14 06:13:43
End at: 2018-02-14 06:14:13

# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.60 Mbit/s
95th percentile per-packet one-way delay: 60.591 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 161.12 Mbit/s
95th percentile per-packet one-way delay: 60.767 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 104.75 Mbit/s
95th percentile per-packet one-way delay: 59.294 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 169.97 Mbit/s
95th percentile per-packet one-way delay: 60.124 ms
Loss rate: 0.83%
```

Run 3: Report of TCP Cubic — Data Link



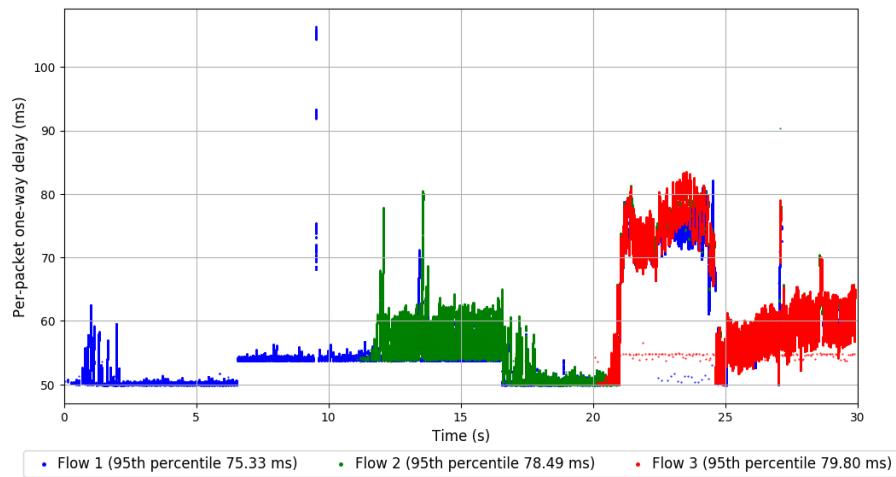
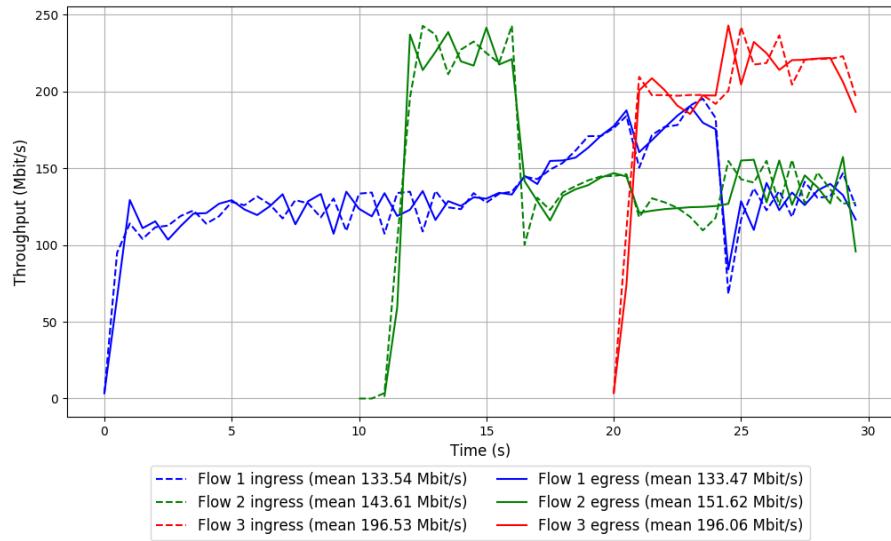
Run 4: Statistics of TCP Cubic

Start at: 2018-02-14 06:31:04

End at: 2018-02-14 06:31:34

```
# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.33 Mbit/s
95th percentile per-packet one-way delay: 77.960 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 133.47 Mbit/s
95th percentile per-packet one-way delay: 75.335 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 151.62 Mbit/s
95th percentile per-packet one-way delay: 78.487 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 196.06 Mbit/s
95th percentile per-packet one-way delay: 79.803 ms
Loss rate: 1.30%
```

Run 4: Report of TCP Cubic — Data Link

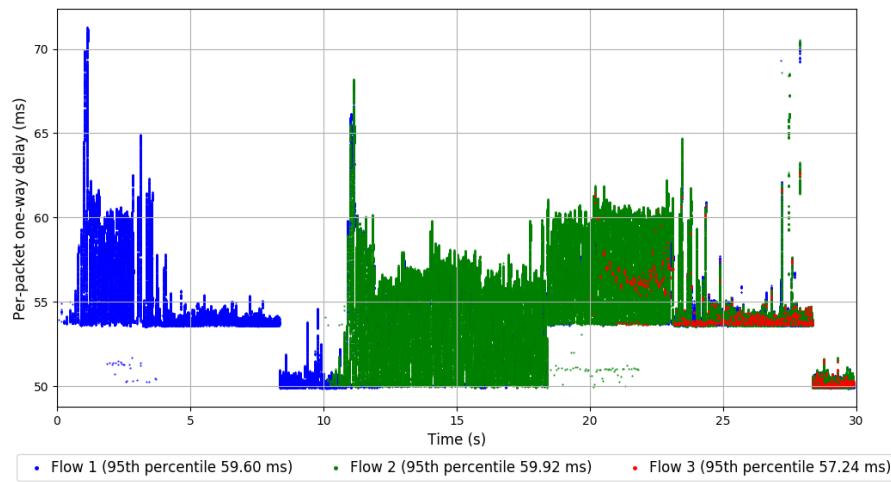
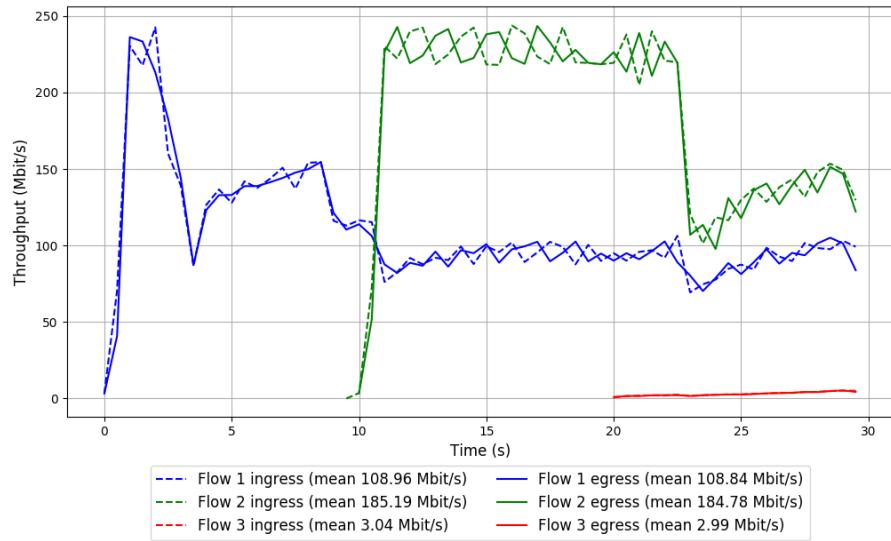


```
Run 5: Statistics of TCP Cubic

Start at: 2018-02-14 06:48:32
End at: 2018-02-14 06:49:02

# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 232.56 Mbit/s
95th percentile per-packet one-way delay: 59.825 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 108.84 Mbit/s
95th percentile per-packet one-way delay: 59.605 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 184.78 Mbit/s
95th percentile per-packet one-way delay: 59.921 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 57.239 ms
Loss rate: 2.43%
```

Run 5: Report of TCP Cubic — Data Link

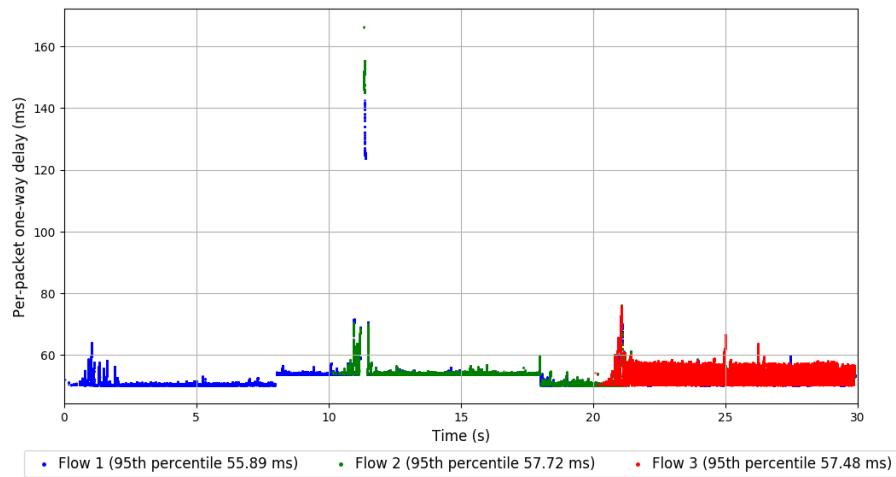
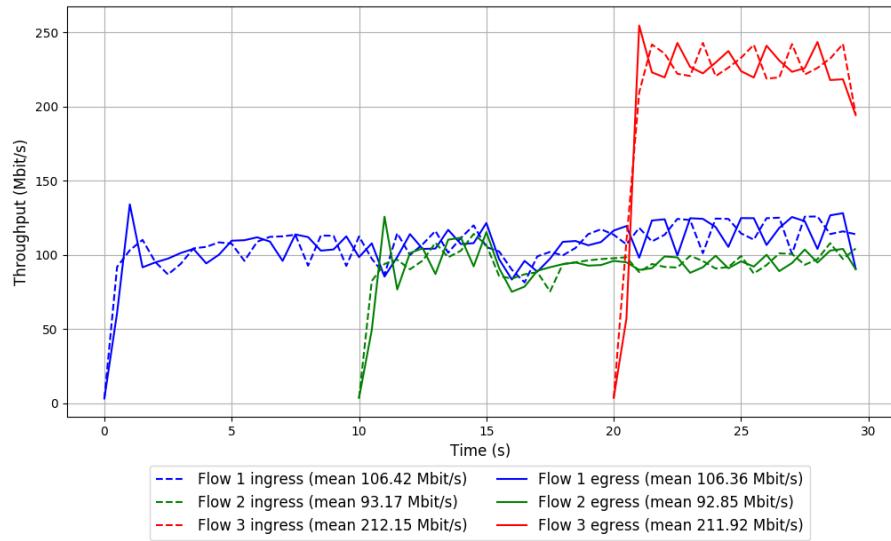


```
Run 6: Statistics of TCP Cubic

Start at: 2018-02-14 07:06:02
End at: 2018-02-14 07:06:32

# Below is generated by plot.py at 2018-02-14 11:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.66 Mbit/s
95th percentile per-packet one-way delay: 57.259 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 106.36 Mbit/s
95th percentile per-packet one-way delay: 55.887 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 57.716 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 211.92 Mbit/s
95th percentile per-packet one-way delay: 57.479 ms
Loss rate: 1.15%
```

Run 6: Report of TCP Cubic — Data Link



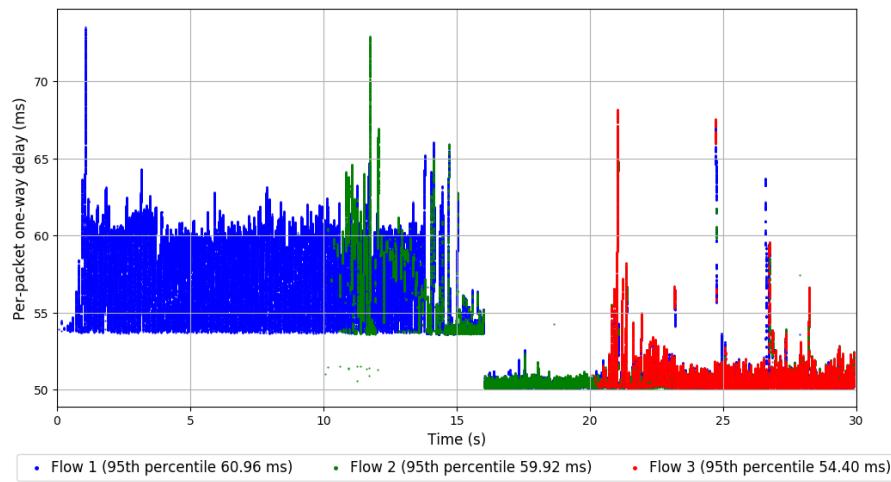
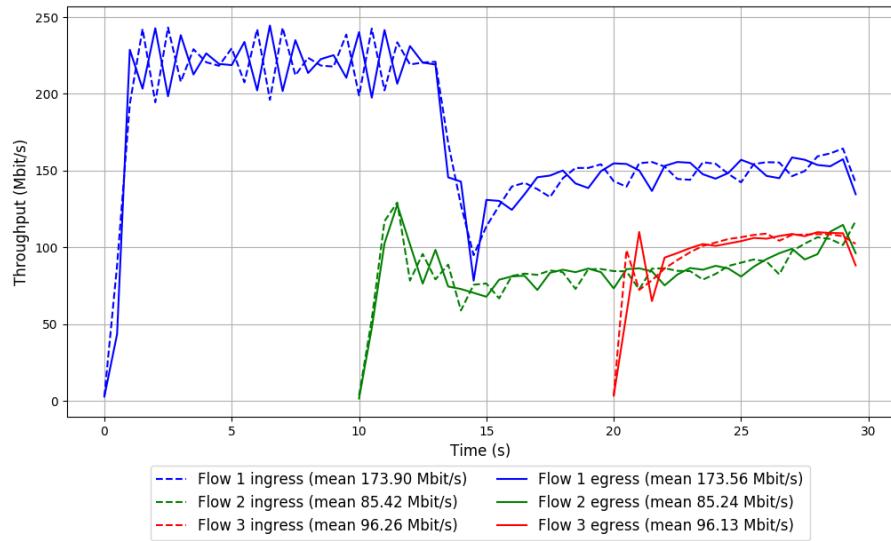
Run 7: Statistics of TCP Cubic

Start at: 2018-02-14 07:23:34

End at: 2018-02-14 07:24:04

```
# Below is generated by plot.py at 2018-02-14 11:53:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.80 Mbit/s
95th percentile per-packet one-way delay: 60.789 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 173.56 Mbit/s
95th percentile per-packet one-way delay: 60.962 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 59.923 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 54.403 ms
Loss rate: 1.16%
```

Run 7: Report of TCP Cubic — Data Link



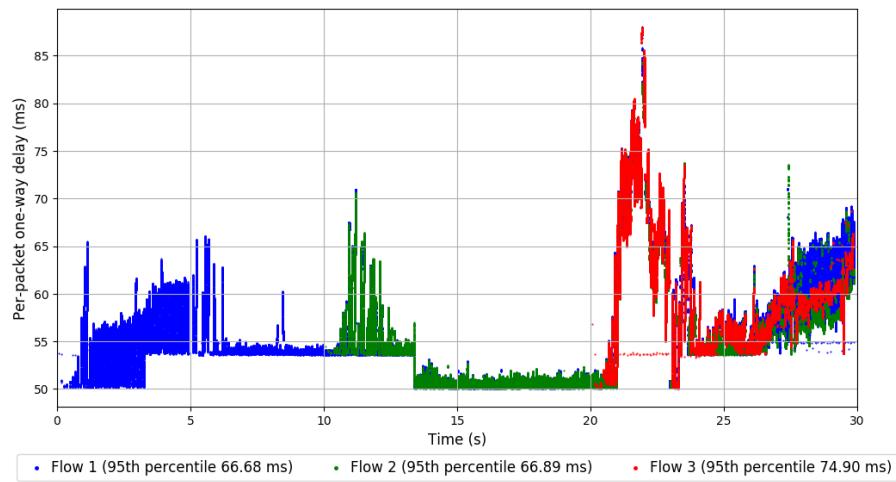
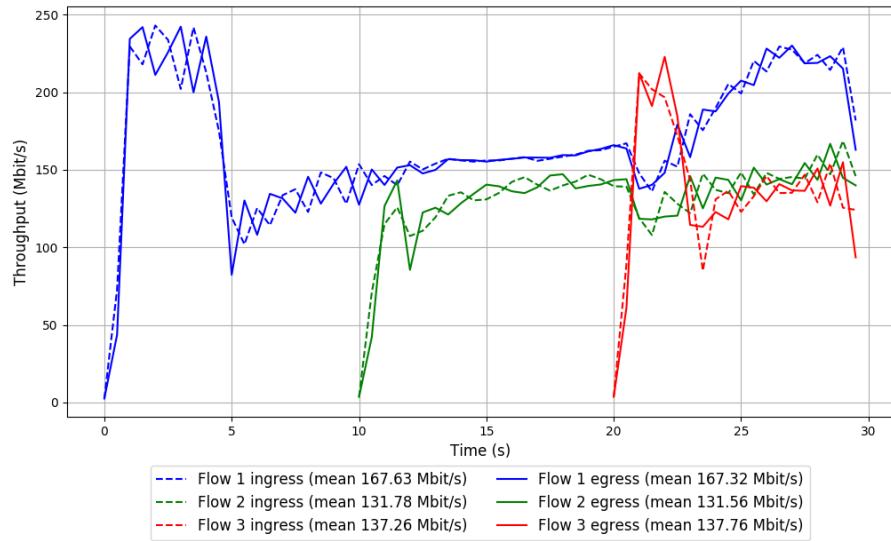
```
Run 8: Statistics of TCP Cubic
```

```
Start at: 2018-02-14 07:40:37
```

```
End at: 2018-02-14 07:41:07
```

```
# Below is generated by plot.py at 2018-02-14 11:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.81 Mbit/s
95th percentile per-packet one-way delay: 70.155 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 167.32 Mbit/s
95th percentile per-packet one-way delay: 66.676 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 131.56 Mbit/s
95th percentile per-packet one-way delay: 66.885 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 137.76 Mbit/s
95th percentile per-packet one-way delay: 74.899 ms
Loss rate: 1.15%
```

Run 8: Report of TCP Cubic — Data Link



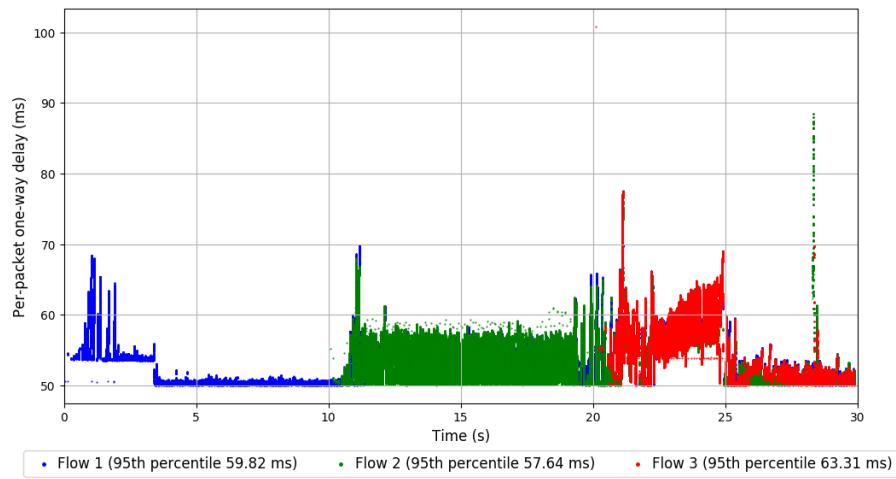
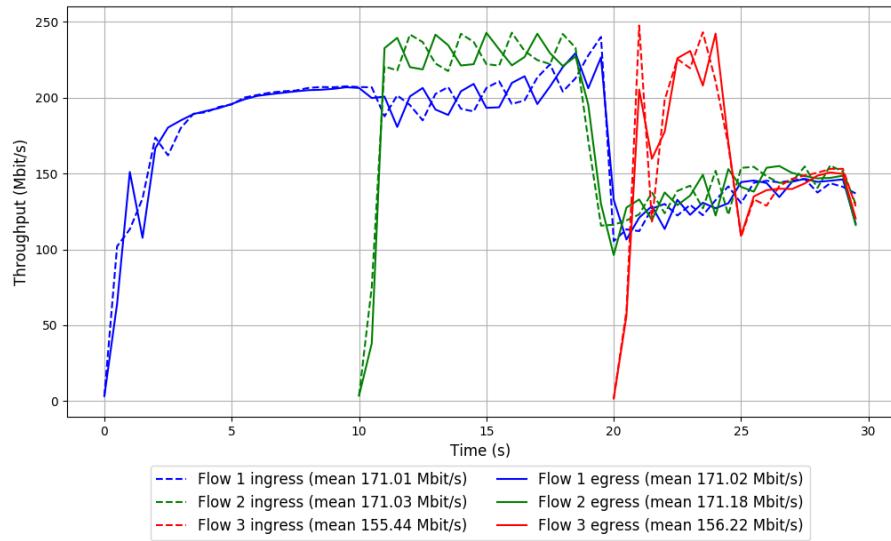
```
Run 9: Statistics of TCP Cubic
```

```
Start at: 2018-02-14 07:58:07
```

```
End at: 2018-02-14 07:58:37
```

```
# Below is generated by plot.py at 2018-02-14 11:55:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.89 Mbit/s
95th percentile per-packet one-way delay: 60.496 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 171.02 Mbit/s
95th percentile per-packet one-way delay: 59.818 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 171.18 Mbit/s
95th percentile per-packet one-way delay: 57.643 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 156.22 Mbit/s
95th percentile per-packet one-way delay: 63.315 ms
Loss rate: 1.01%
```

Run 9: Report of TCP Cubic — Data Link



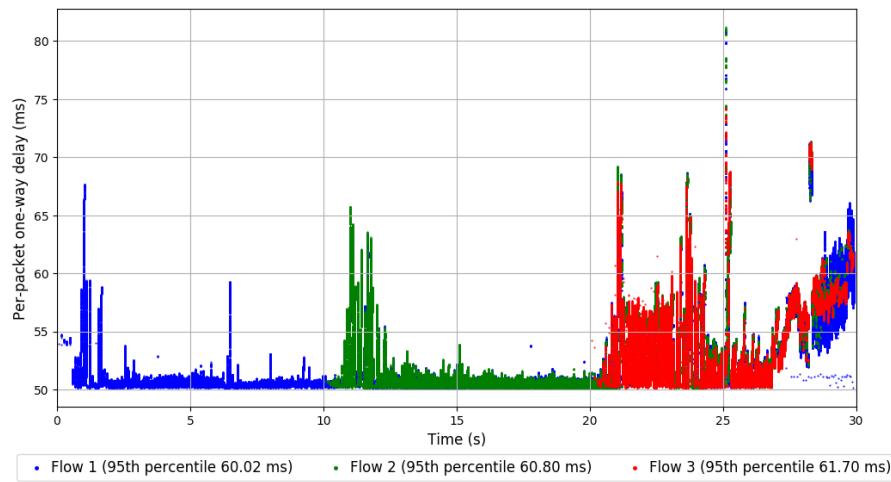
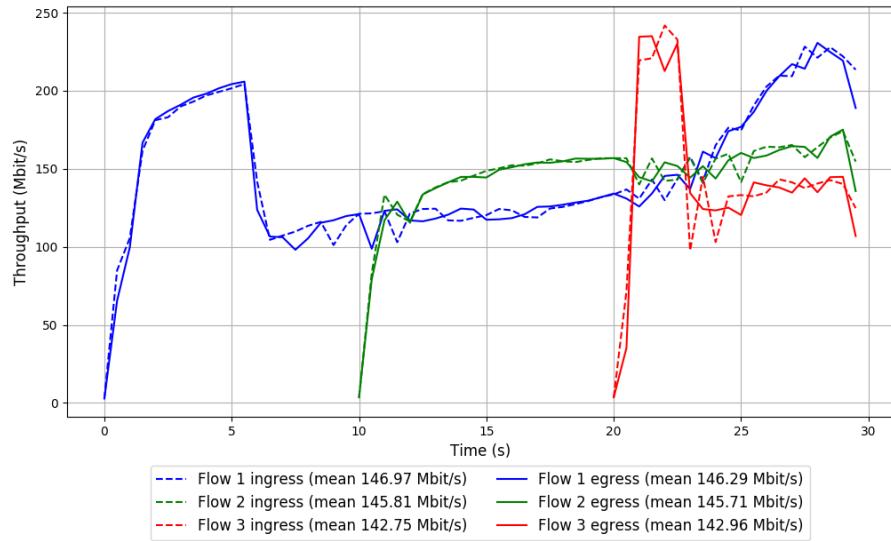
```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-02-14 08:15:30
```

```
End at: 2018-02-14 08:16:00
```

```
# Below is generated by plot.py at 2018-02-14 11:55:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.11 Mbit/s
95th percentile per-packet one-way delay: 60.624 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 146.29 Mbit/s
95th percentile per-packet one-way delay: 60.025 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 145.71 Mbit/s
95th percentile per-packet one-way delay: 60.805 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 142.96 Mbit/s
95th percentile per-packet one-way delay: 61.700 ms
Loss rate: 1.10%
```

Run 10: Report of TCP Cubic — Data Link

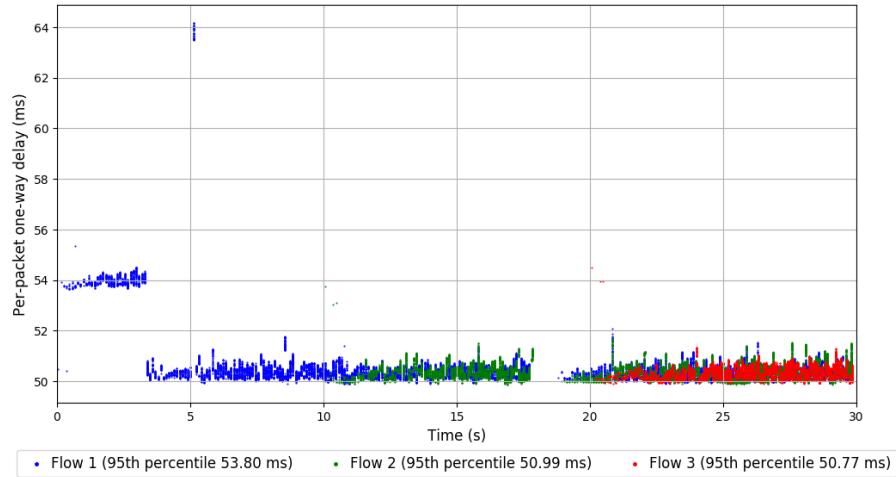
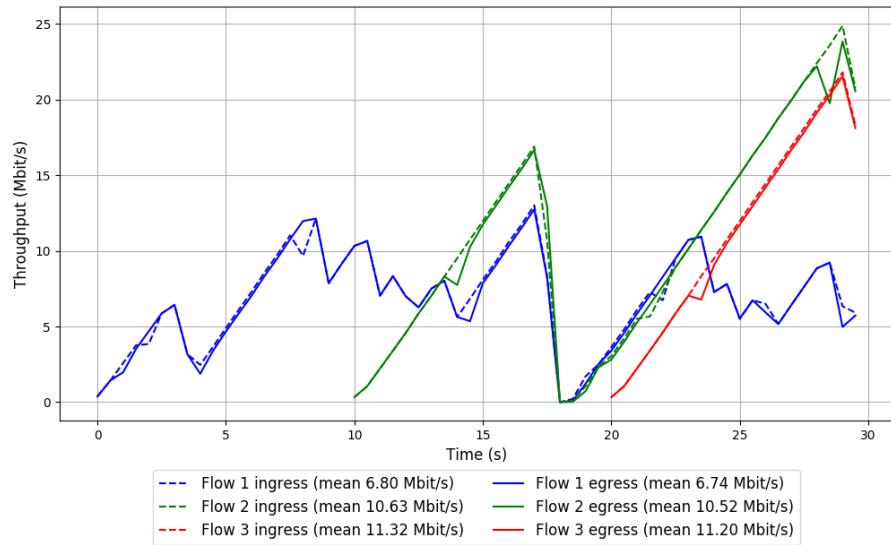


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-14 05:49:27
End at: 2018-02-14 05:49:57

# Below is generated by plot.py at 2018-02-14 11:55:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.38 Mbit/s
95th percentile per-packet one-way delay: 50.986 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 53.803 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 50.987 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 2.08%
```

Run 1: Report of LEDBAT — Data Link



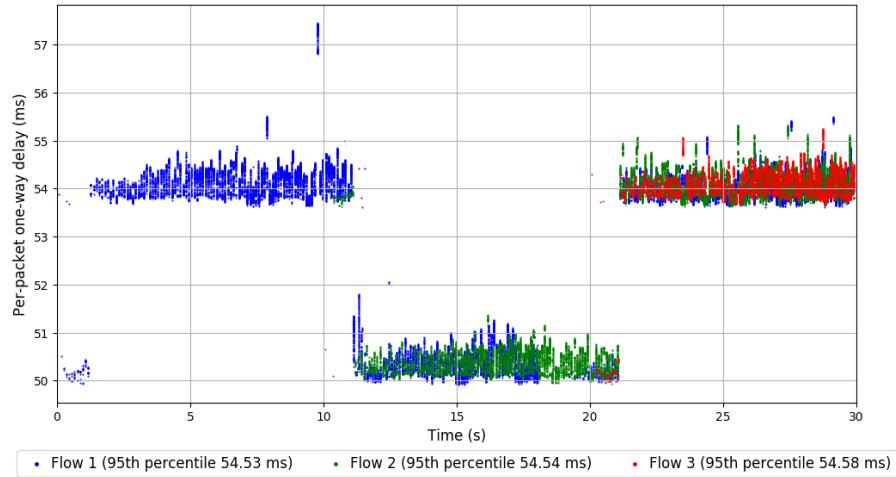
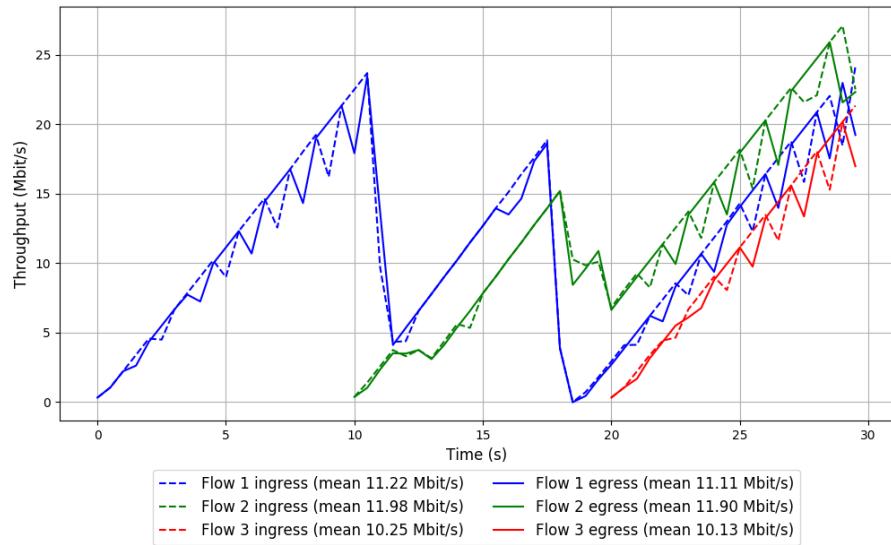
Run 2: Statistics of LEDBAT

Start at: 2018-02-14 06:06:49

End at: 2018-02-14 06:07:19

```
# Below is generated by plot.py at 2018-02-14 11:55:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.33 Mbit/s
95th percentile per-packet one-way delay: 54.545 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 11.11 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 54.540 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 54.582 ms
Loss rate: 2.14%
```

Run 2: Report of LEDBAT — Data Link



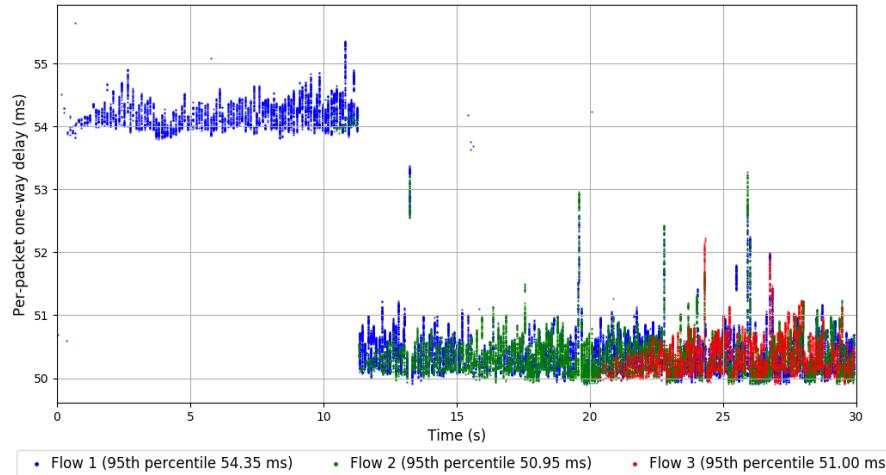
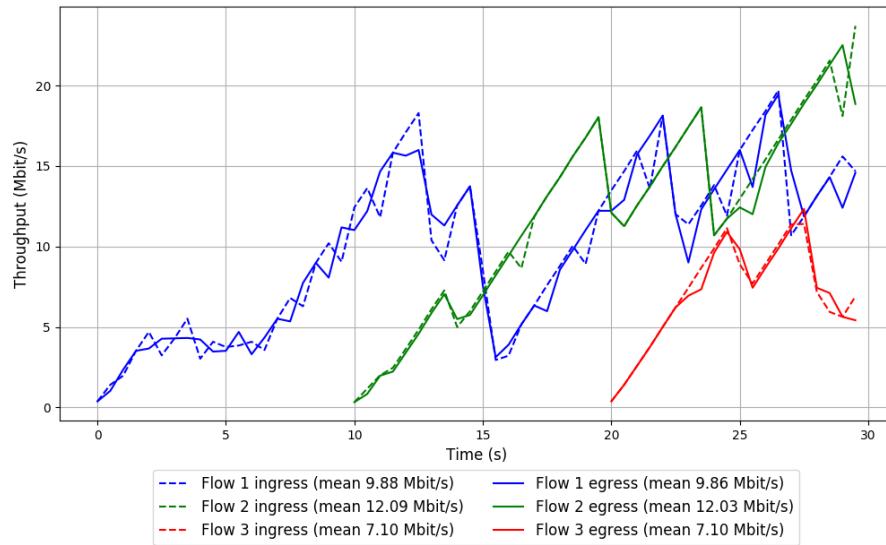
```
Run 3: Statistics of LEDBAT
```

```
Start at: 2018-02-14 06:24:19
```

```
End at: 2018-02-14 06:24:49
```

```
# Below is generated by plot.py at 2018-02-14 11:55:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.17 Mbit/s
95th percentile per-packet one-way delay: 54.202 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 9.86 Mbit/s
95th percentile per-packet one-way delay: 54.349 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 51.001 ms
Loss rate: 1.05%
```

Run 3: Report of LEDBAT — Data Link



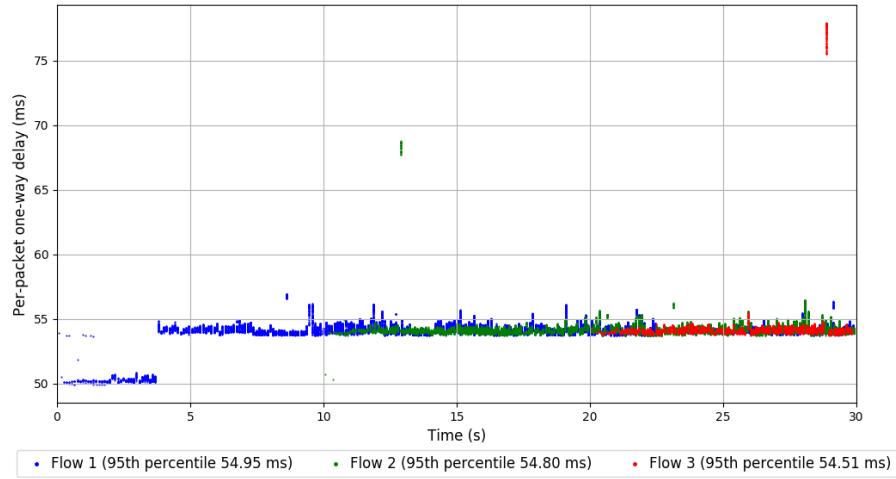
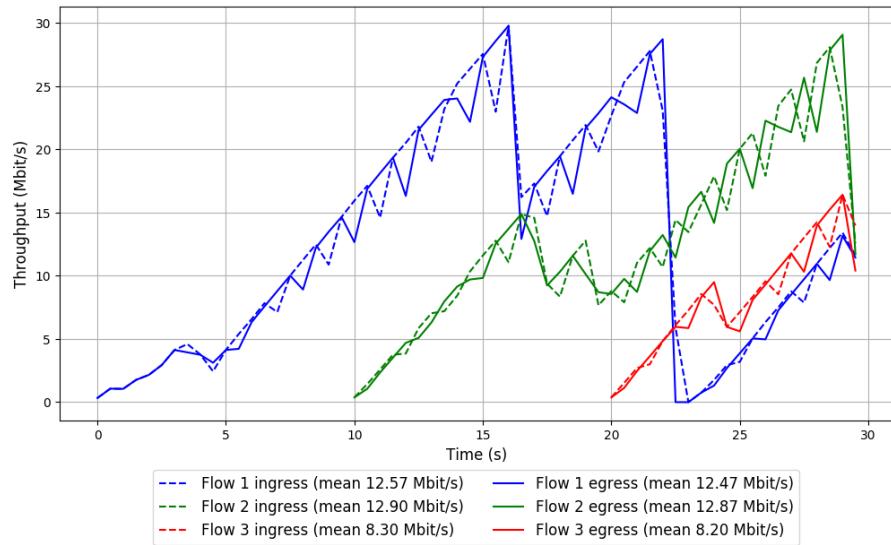
Run 4: Statistics of LEDBAT

Start at: 2018-02-14 06:41:46

End at: 2018-02-14 06:42:16

```
# Below is generated by plot.py at 2018-02-14 11:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 54.857 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 54.949 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 54.803 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 54.505 ms
Loss rate: 2.18%
```

Run 4: Report of LEDBAT — Data Link



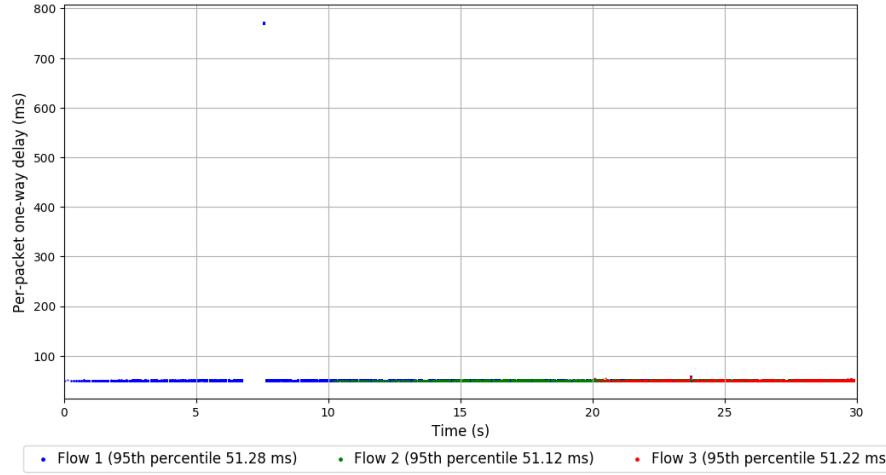
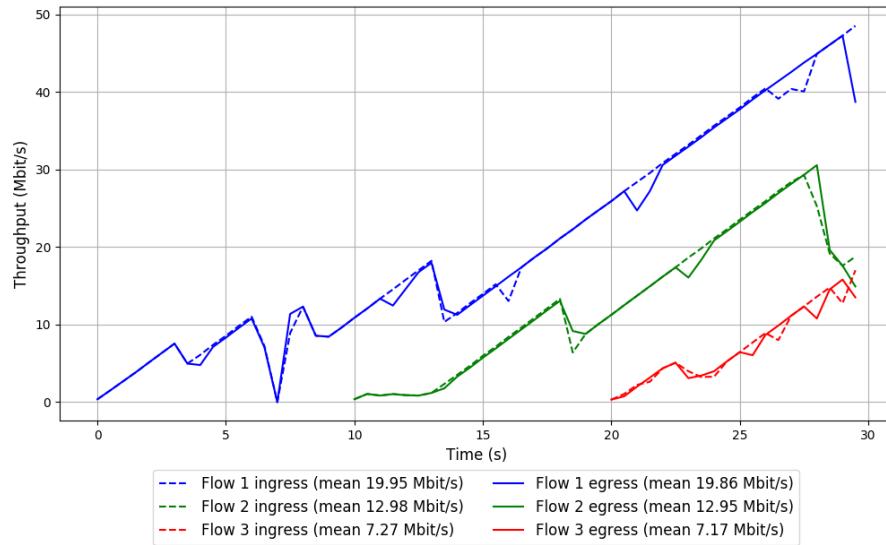
Run 5: Statistics of LEDBAT

Start at: 2018-02-14 06:59:09

End at: 2018-02-14 06:59:39

```
# Below is generated by plot.py at 2018-02-14 11:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 51.237 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 19.86 Mbit/s
95th percentile per-packet one-way delay: 51.283 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 51.115 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 51.217 ms
Loss rate: 2.42%
```

Run 5: Report of LEDBAT — Data Link



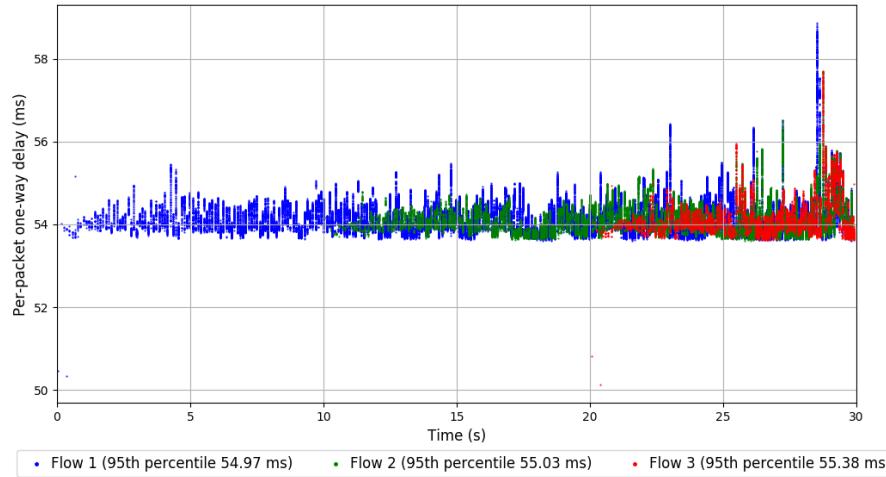
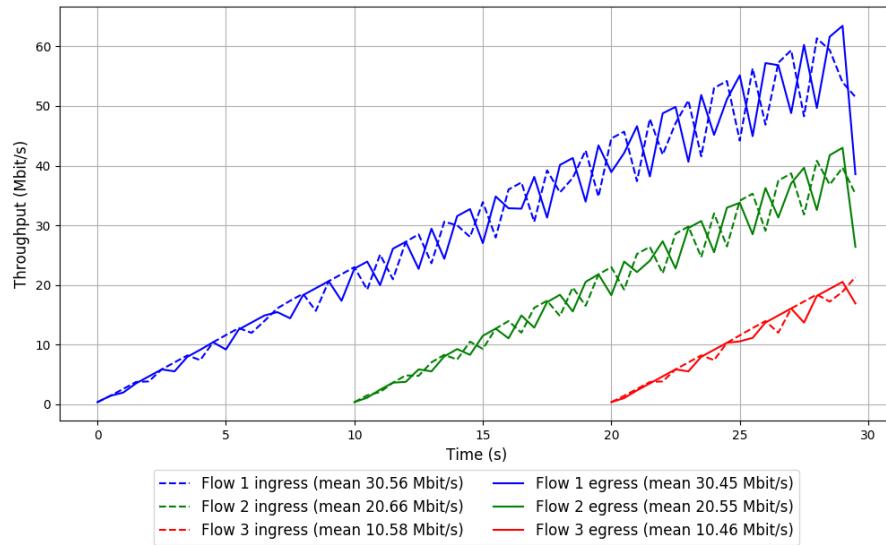
```
Run 6: Statistics of LEDBAT
```

```
Start at: 2018-02-14 07:16:47
```

```
End at: 2018-02-14 07:17:17
```

```
# Below is generated by plot.py at 2018-02-14 11:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.42 Mbit/s
95th percentile per-packet one-way delay: 55.026 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 54.968 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 55.033 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 55.384 ms
Loss rate: 2.10%
```

Run 6: Report of LEDBAT — Data Link



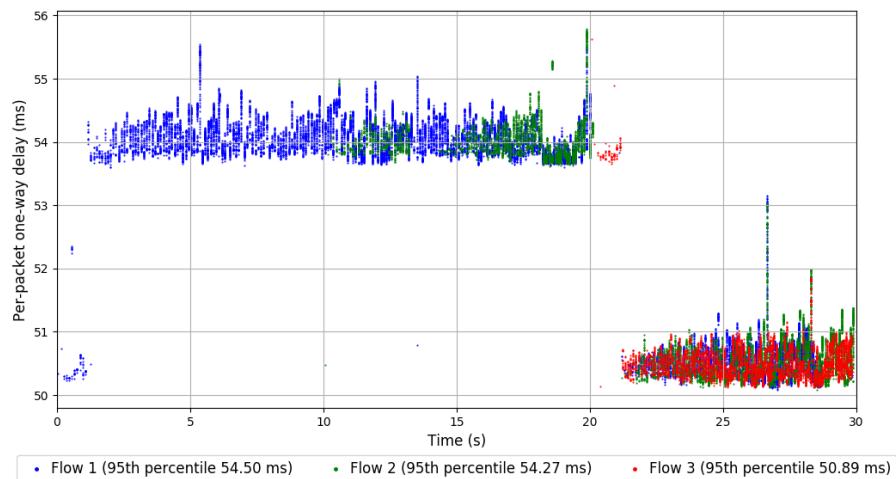
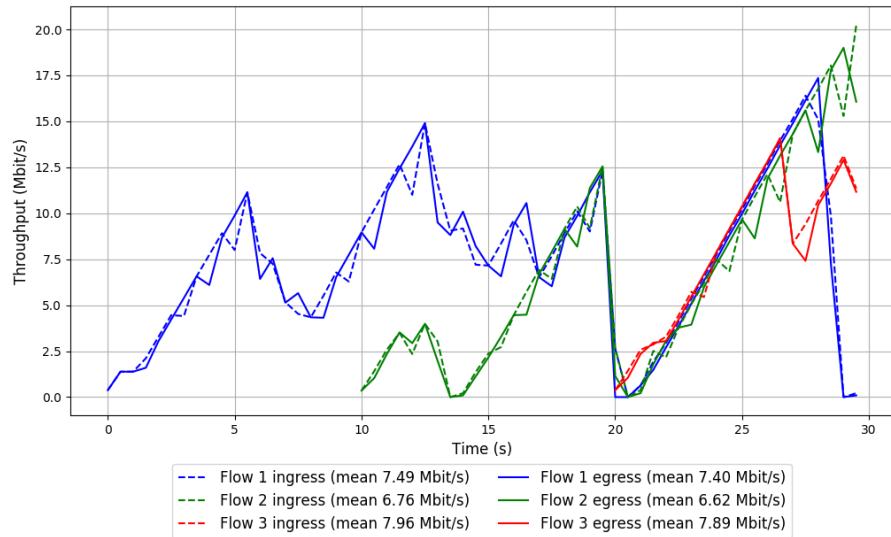
Run 7: Statistics of LEDBAT

Start at: 2018-02-14 07:33:49

End at: 2018-02-14 07:34:19

```
# Below is generated by plot.py at 2018-02-14 11:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 54.413 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 54.500 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 54.268 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 50.891 ms
Loss rate: 1.85%
```

Run 7: Report of LEDBAT — Data Link



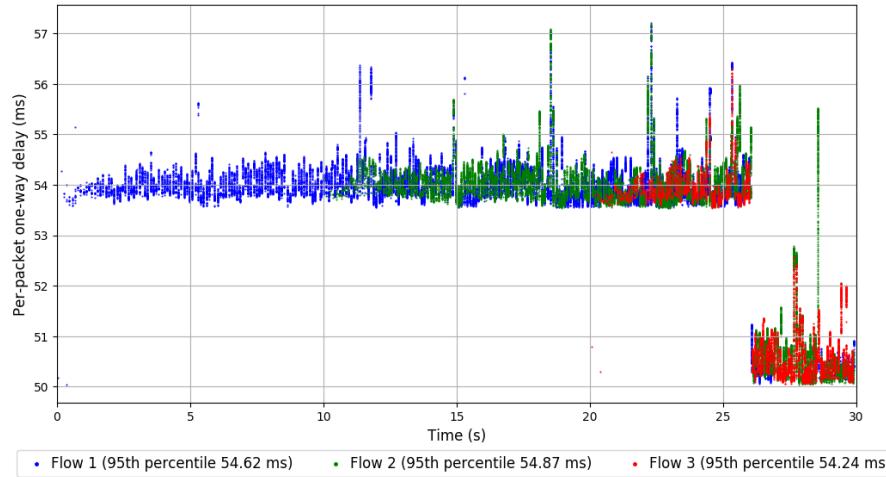
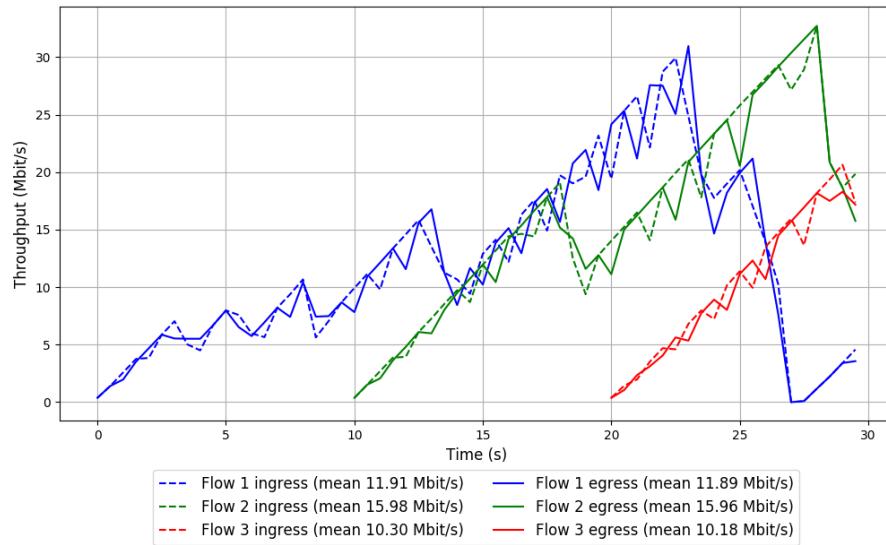
Run 8: Statistics of LEDBAT

Start at: 2018-02-14 07:51:14

End at: 2018-02-14 07:51:44

```
# Below is generated by plot.py at 2018-02-14 11:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.82 Mbit/s
95th percentile per-packet one-way delay: 54.656 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 54.625 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 54.868 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 10.18 Mbit/s
95th percentile per-packet one-way delay: 54.240 ms
Loss rate: 2.17%
```

Run 8: Report of LEDBAT — Data Link



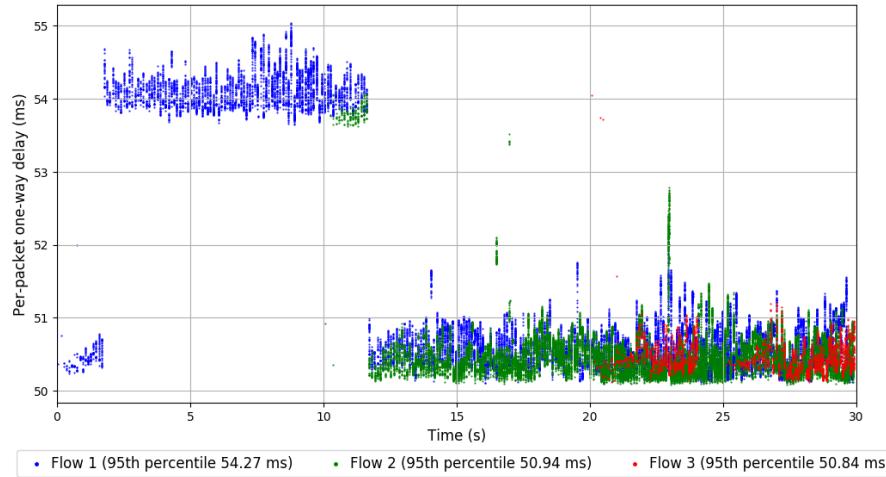
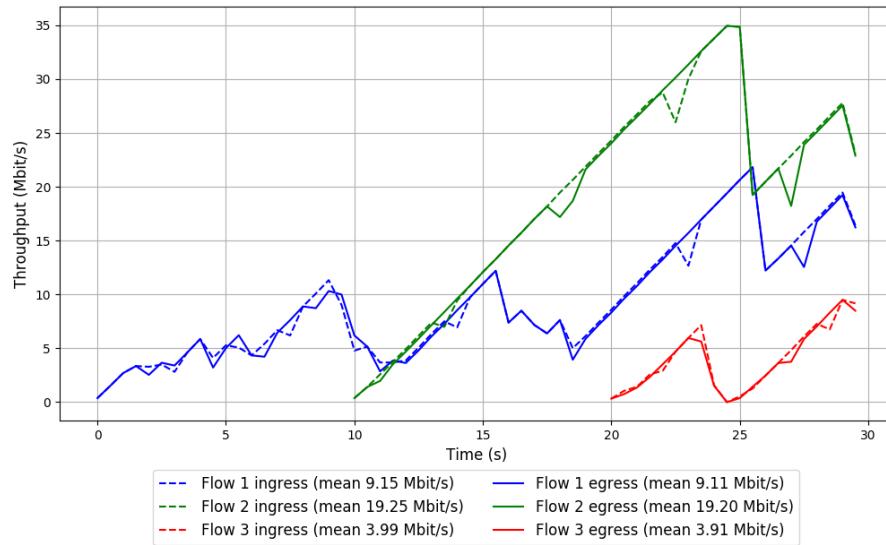
Run 9: Statistics of LEDBAT

Start at: 2018-02-14 08:08:39

End at: 2018-02-14 08:09:09

```
# Below is generated by plot.py at 2018-02-14 11:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.12 Mbit/s
95th percentile per-packet one-way delay: 54.014 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 9.11 Mbit/s
95th percentile per-packet one-way delay: 54.269 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 19.20 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 2.84%
```

Run 9: Report of LEDBAT — Data Link



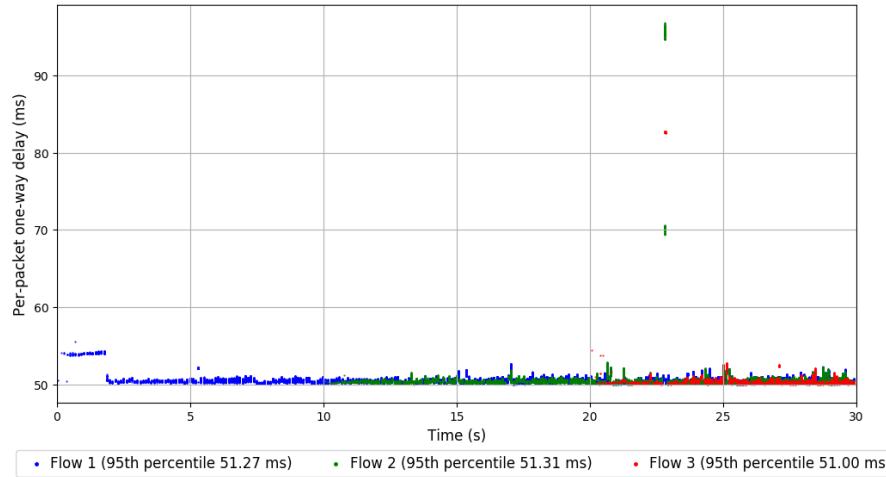
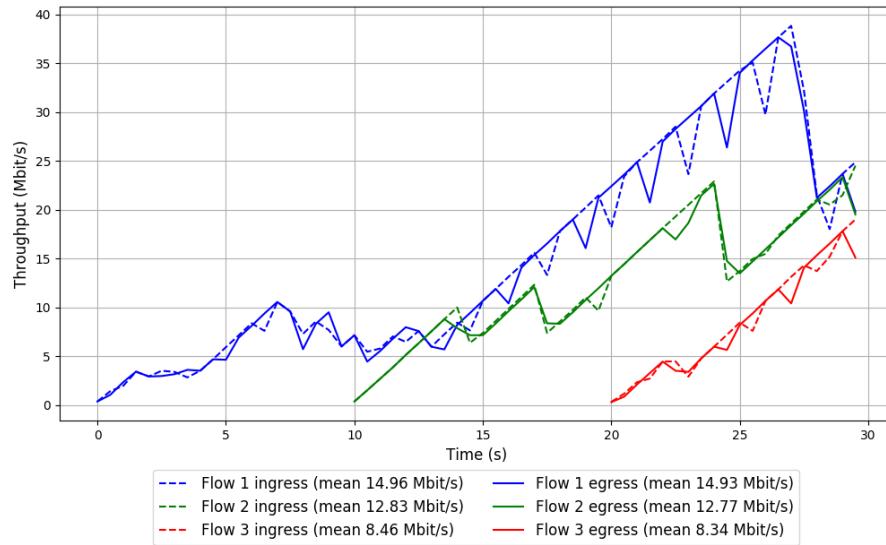
Run 10: Statistics of LEDBAT

Start at: 2018-02-14 08:25:49

End at: 2018-02-14 08:26:19

```
# Below is generated by plot.py at 2018-02-14 11:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.15 Mbit/s
95th percentile per-packet one-way delay: 51.264 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 51.274 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 51.315 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 51.003 ms
Loss rate: 2.60%
```

Run 10: Report of LEDBAT — Data Link

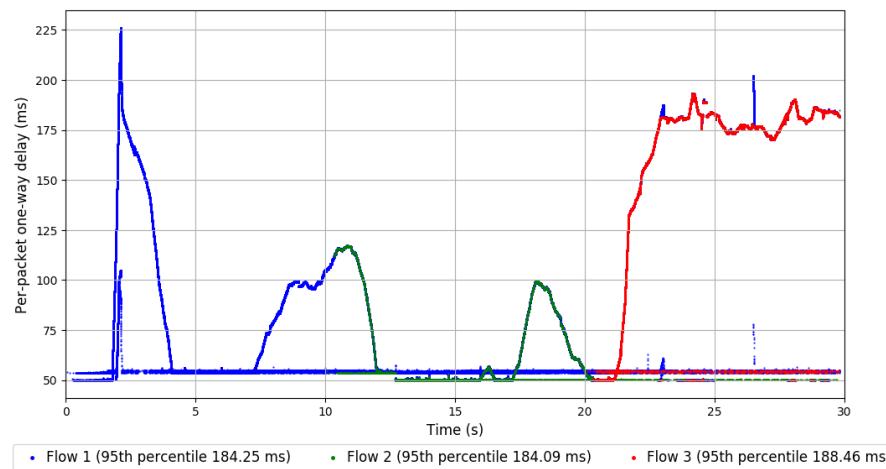
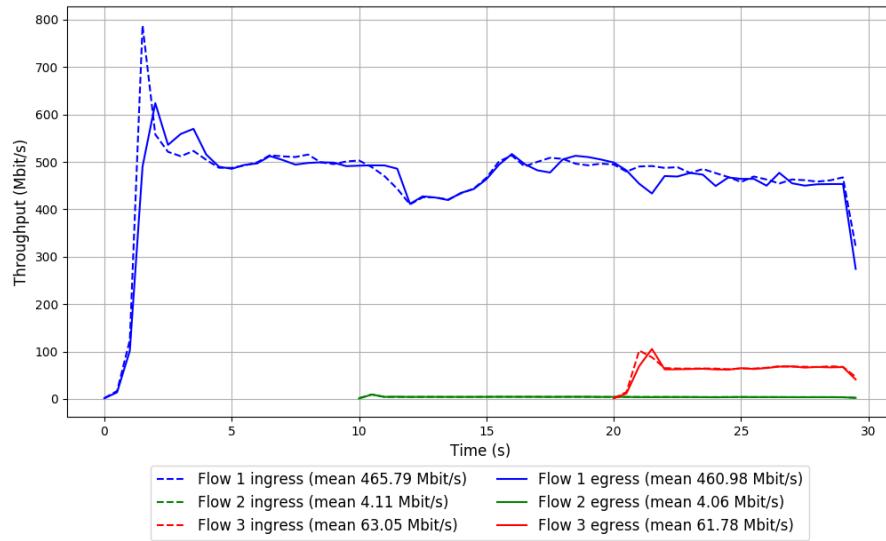


```
Run 1: Statistics of PCC

Start at: 2018-02-14 05:50:08
End at: 2018-02-14 05:50:38

# Below is generated by plot.py at 2018-02-14 12:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 483.77 Mbit/s
95th percentile per-packet one-way delay: 184.416 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 460.98 Mbit/s
95th percentile per-packet one-way delay: 184.251 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 184.086 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 188.459 ms
Loss rate: 3.07%
```

Run 1: Report of PCC — Data Link



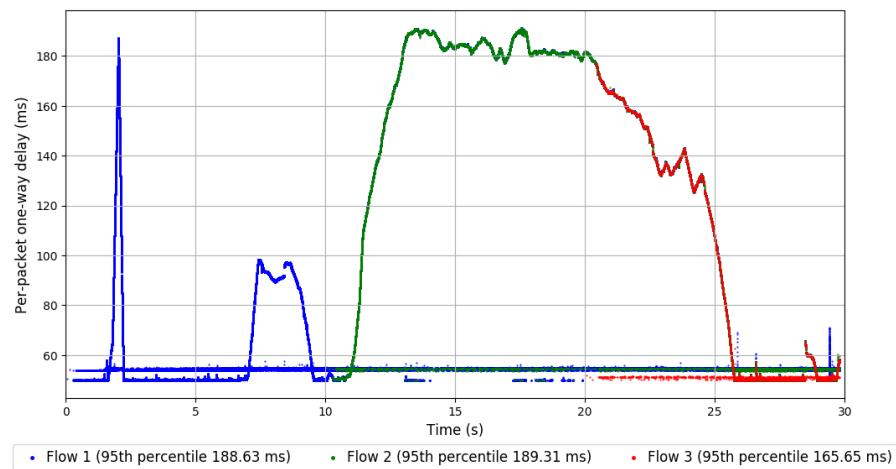
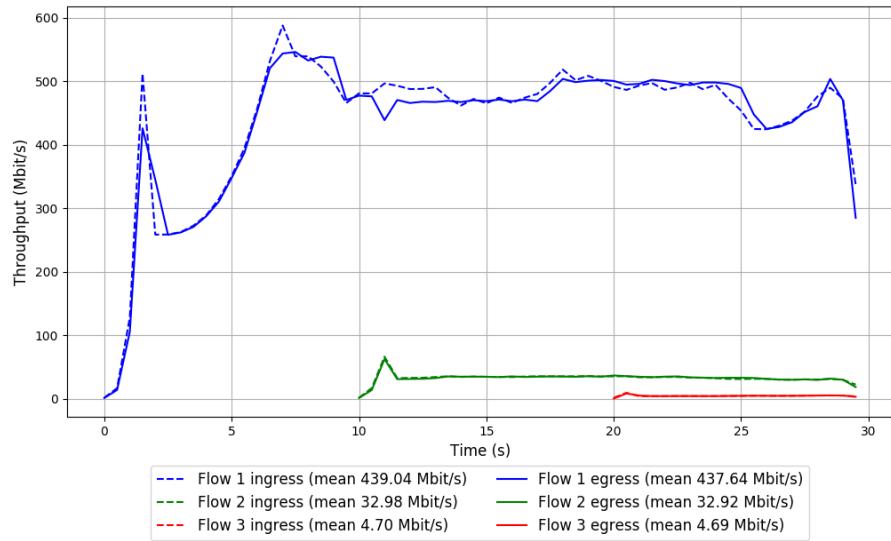
Run 2: Statistics of PCC

Start at: 2018-02-14 06:07:30

End at: 2018-02-14 06:08:00

```
# Below is generated by plot.py at 2018-02-14 12:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 460.98 Mbit/s
95th percentile per-packet one-way delay: 188.679 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 437.64 Mbit/s
95th percentile per-packet one-way delay: 188.635 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: 189.308 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 165.651 ms
Loss rate: 1.22%
```

Run 2: Report of PCC — Data Link



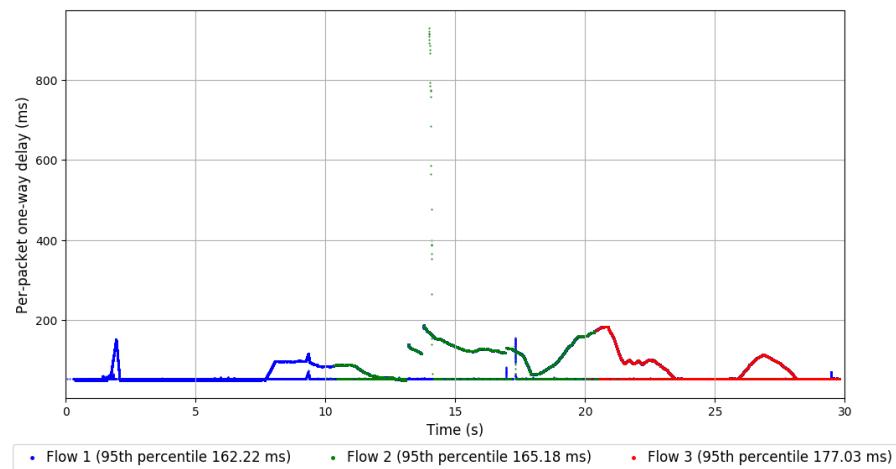
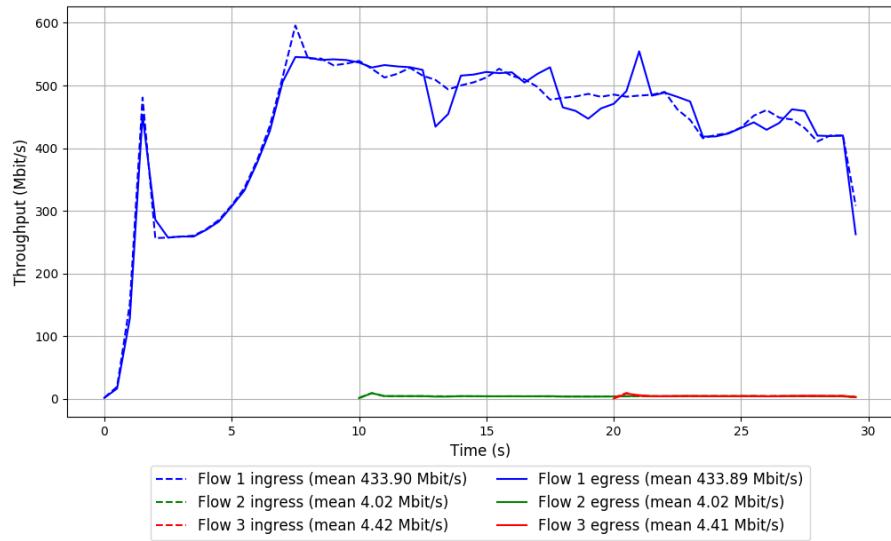
Run 3: Statistics of PCC

Start at: 2018-02-14 06:25:00

End at: 2018-02-14 06:25:30

```
# Below is generated by plot.py at 2018-02-14 12:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.01 Mbit/s
95th percentile per-packet one-way delay: 162.426 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 433.89 Mbit/s
95th percentile per-packet one-way delay: 162.218 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 165.177 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 177.030 ms
Loss rate: 1.11%
```

Run 3: Report of PCC — Data Link



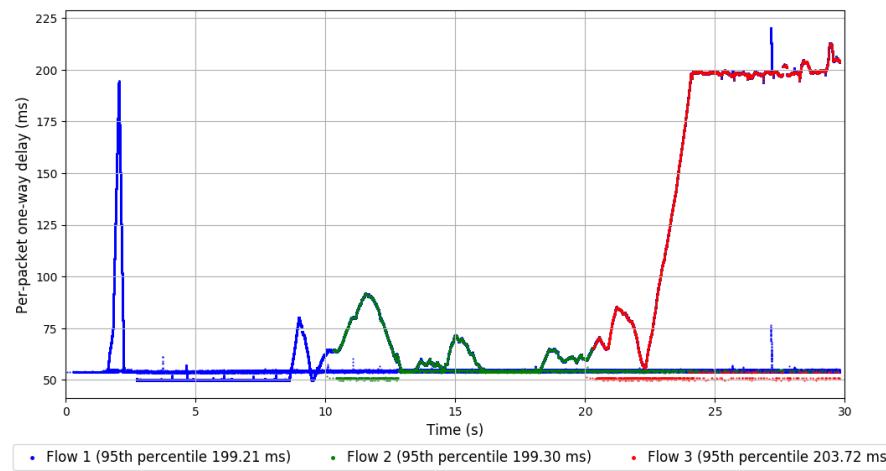
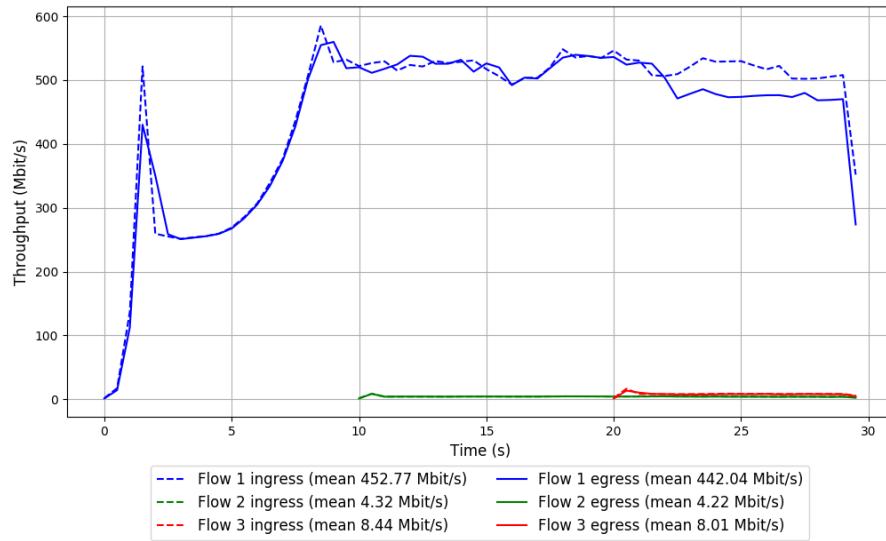
Run 4: Statistics of PCC

Start at: 2018-02-14 06:42:27

End at: 2018-02-14 06:42:57

```
# Below is generated by plot.py at 2018-02-14 12:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 447.45 Mbit/s
95th percentile per-packet one-way delay: 199.219 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 442.04 Mbit/s
95th percentile per-packet one-way delay: 199.210 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 199.299 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 203.715 ms
Loss rate: 6.09%
```

Run 4: Report of PCC — Data Link



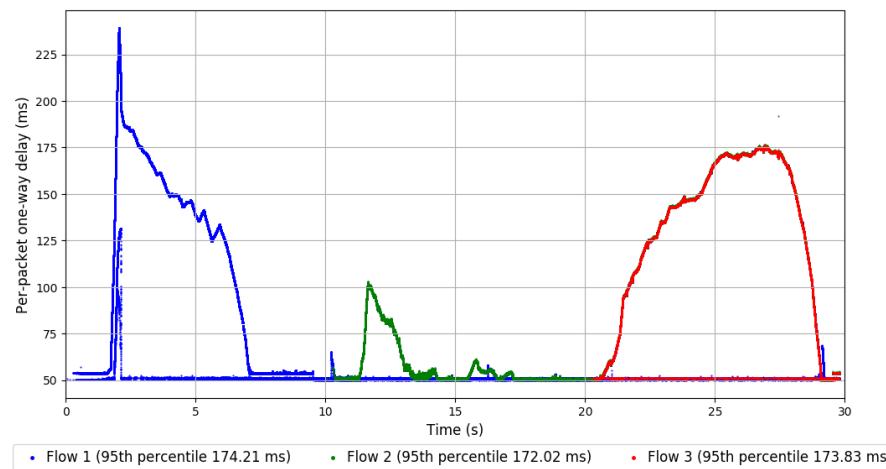
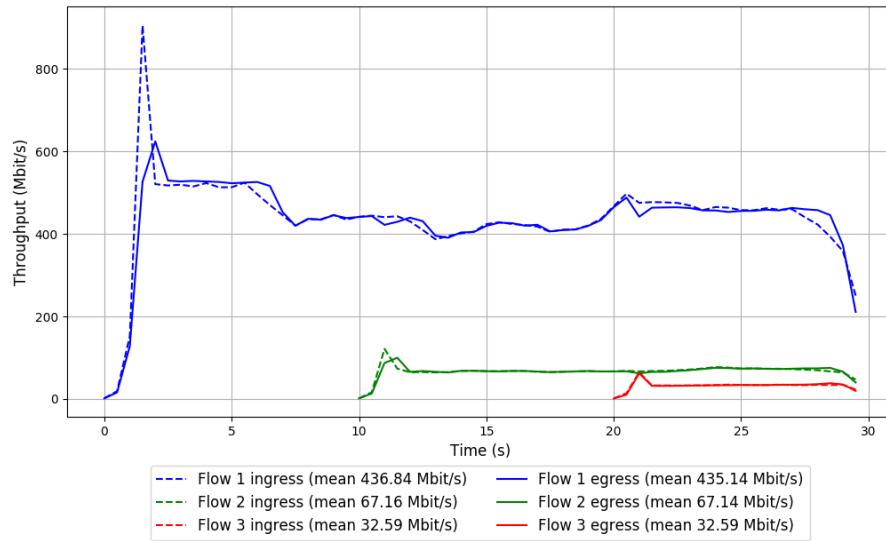
Run 5: Statistics of PCC

Start at: 2018-02-14 06:59:51

End at: 2018-02-14 07:00:21

```
# Below is generated by plot.py at 2018-02-14 12:02:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 490.32 Mbit/s
95th percentile per-packet one-way delay: 173.931 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 435.14 Mbit/s
95th percentile per-packet one-way delay: 174.212 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 67.14 Mbit/s
95th percentile per-packet one-way delay: 172.022 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 173.831 ms
Loss rate: 1.04%
```

Run 5: Report of PCC — Data Link



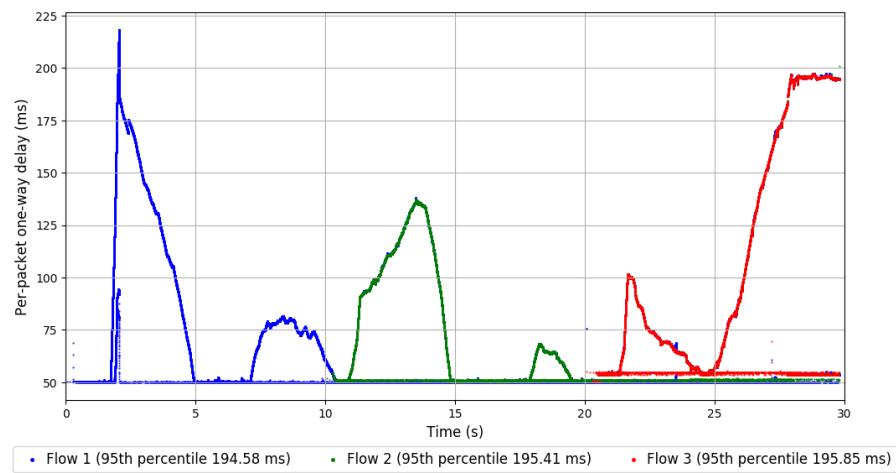
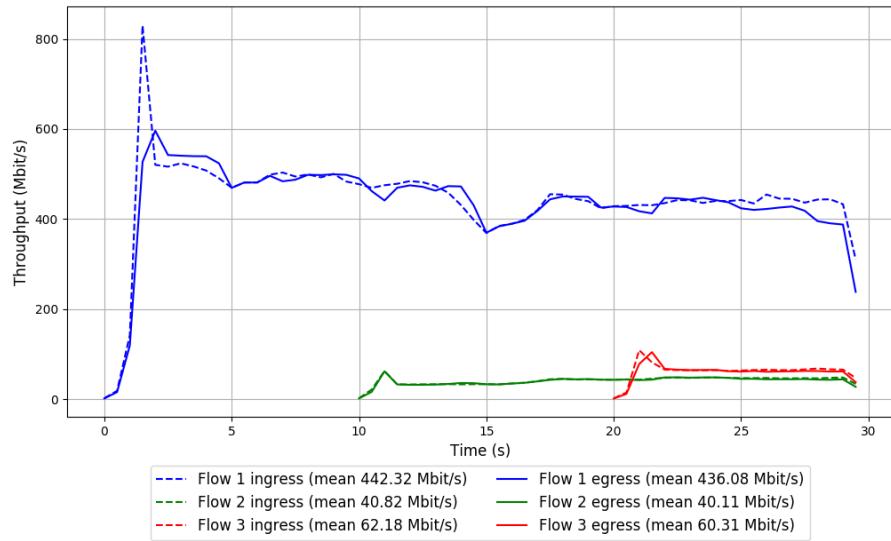
Run 6: Statistics of PCC

Start at: 2018-02-14 07:17:30

End at: 2018-02-14 07:18:00

```
# Below is generated by plot.py at 2018-02-14 12:02:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 482.32 Mbit/s
95th percentile per-packet one-way delay: 194.942 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 436.08 Mbit/s
95th percentile per-packet one-way delay: 194.578 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 195.415 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 60.31 Mbit/s
95th percentile per-packet one-way delay: 195.849 ms
Loss rate: 4.07%
```

Run 6: Report of PCC — Data Link



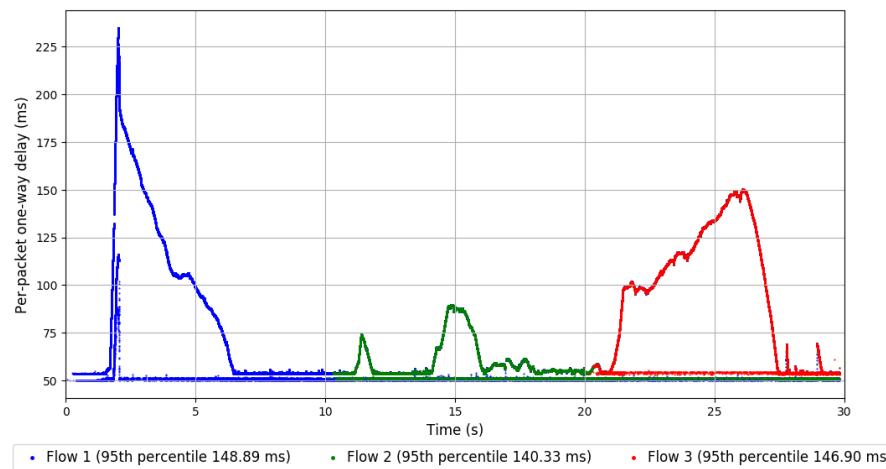
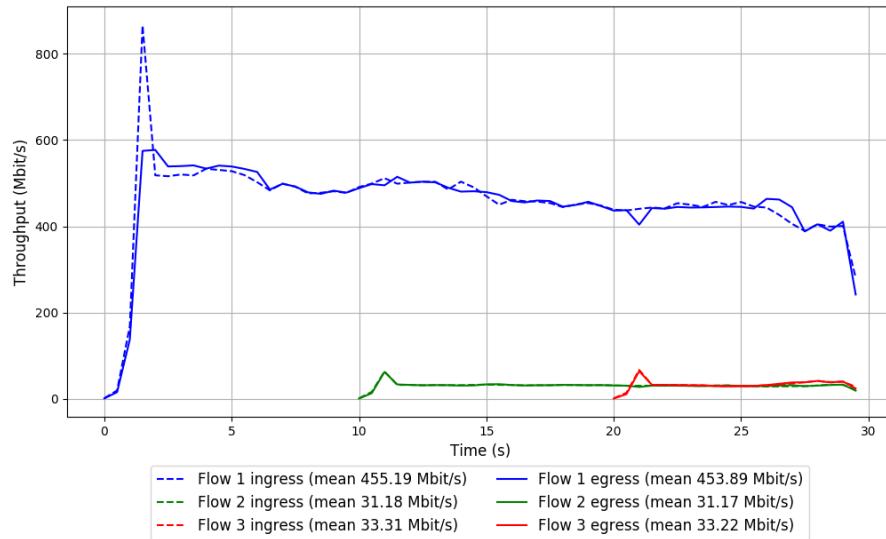
Run 7: Statistics of PCC

Start at: 2018-02-14 07:34:30

End at: 2018-02-14 07:35:00

```
# Below is generated by plot.py at 2018-02-14 12:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 485.36 Mbit/s
95th percentile per-packet one-way delay: 148.667 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 453.89 Mbit/s
95th percentile per-packet one-way delay: 148.892 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 140.327 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 146.898 ms
Loss rate: 1.30%
```

Run 7: Report of PCC — Data Link



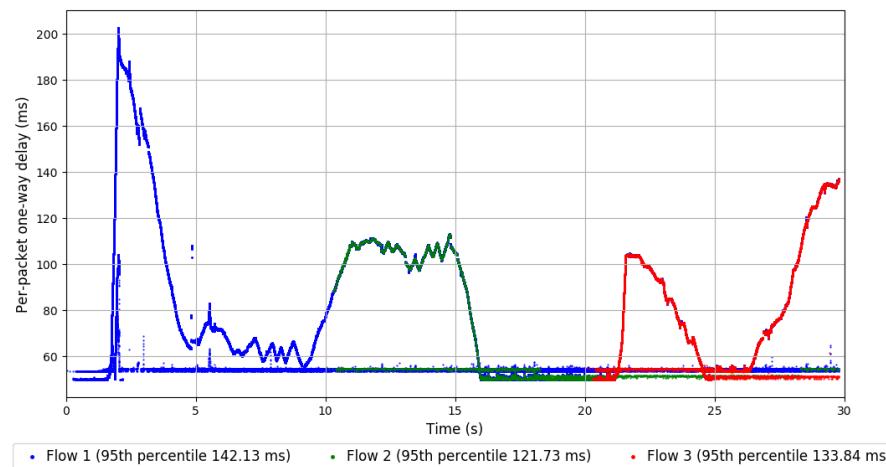
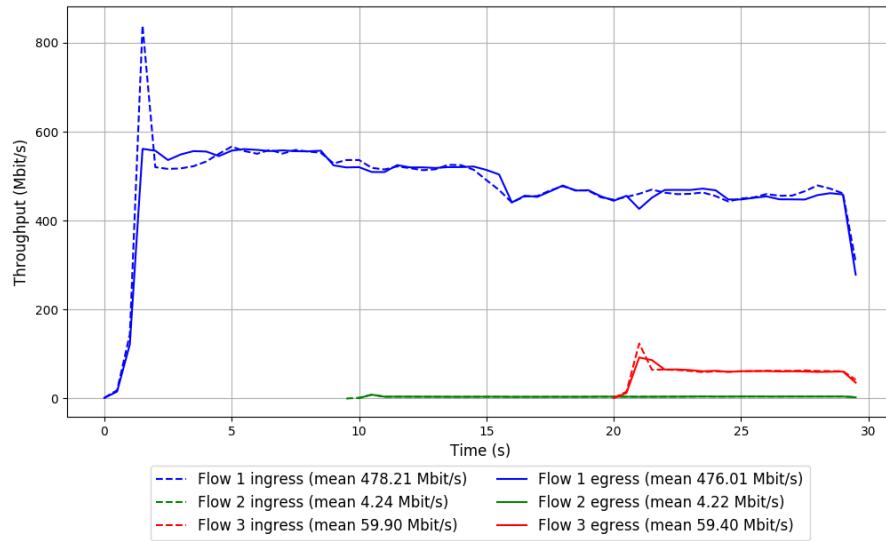
Run 8: Statistics of PCC

Start at: 2018-02-14 07:51:55

End at: 2018-02-14 07:52:25

```
# Below is generated by plot.py at 2018-02-14 12:04:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 498.23 Mbit/s
95th percentile per-packet one-way delay: 138.191 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 476.01 Mbit/s
95th percentile per-packet one-way delay: 142.132 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 121.730 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 59.40 Mbit/s
95th percentile per-packet one-way delay: 133.839 ms
Loss rate: 1.91%
```

Run 8: Report of PCC — Data Link



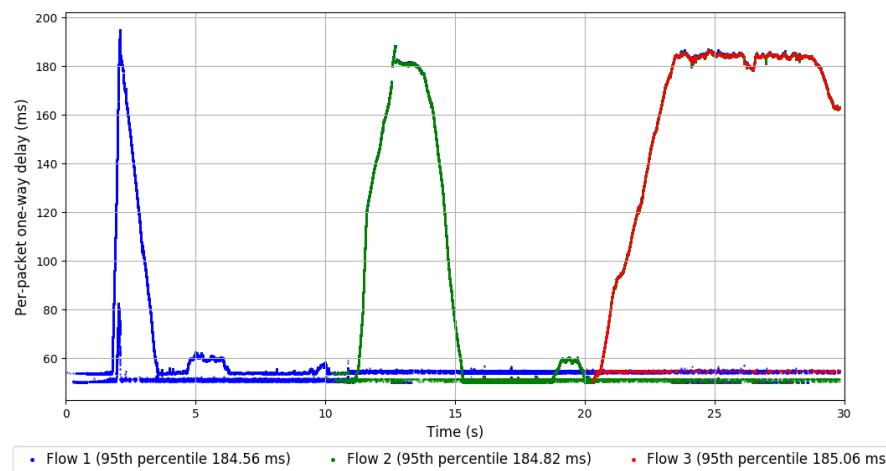
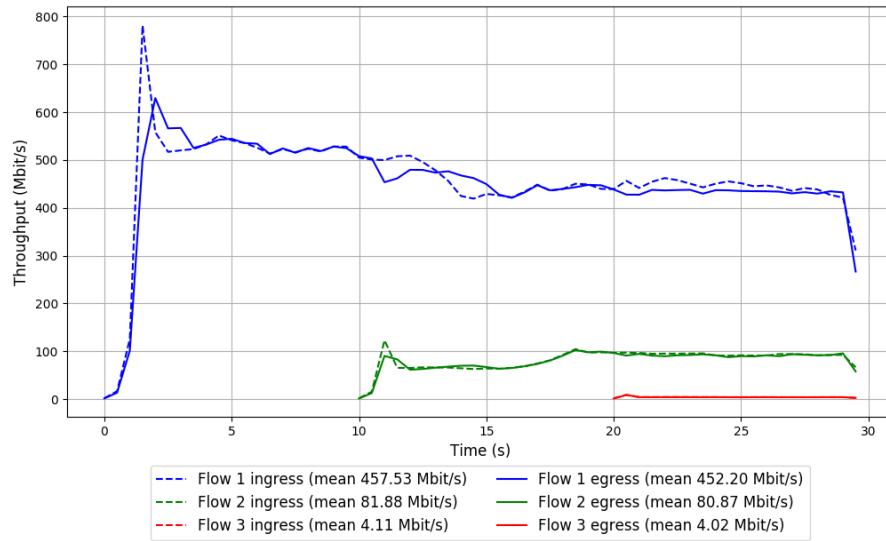
Run 9: Statistics of PCC

Start at: 2018-02-14 08:09:19

End at: 2018-02-14 08:09:49

```
# Below is generated by plot.py at 2018-02-14 12:08:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 507.19 Mbit/s
95th percentile per-packet one-way delay: 184.605 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 452.20 Mbit/s
95th percentile per-packet one-way delay: 184.565 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 80.87 Mbit/s
95th percentile per-packet one-way delay: 184.825 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 185.062 ms
Loss rate: 3.36%
```

Run 9: Report of PCC — Data Link



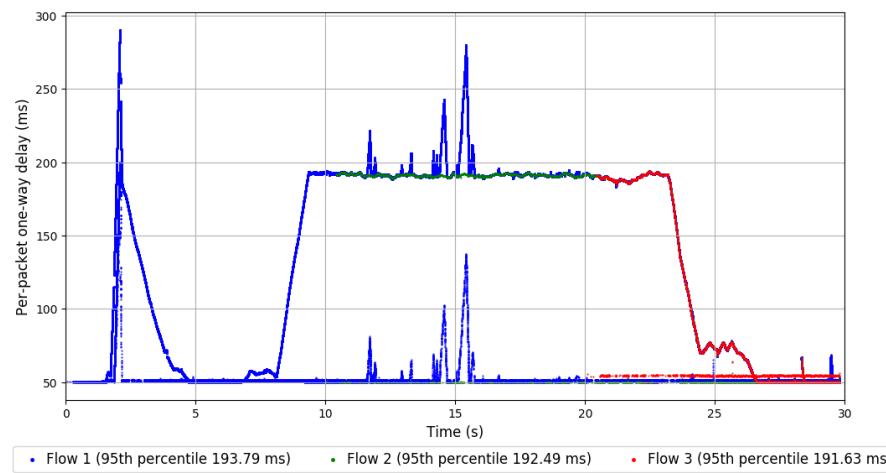
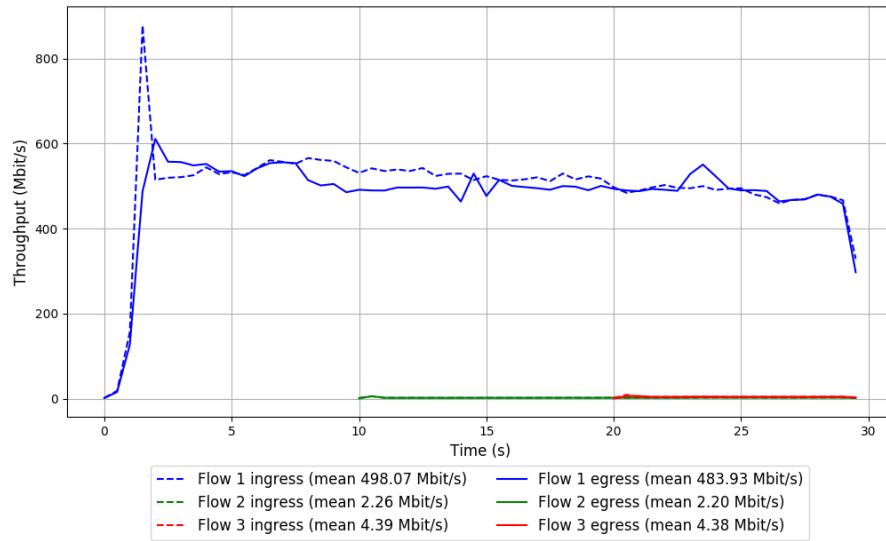
Run 10: Statistics of PCC

Start at: 2018-02-14 08:26:29

End at: 2018-02-14 08:26:59

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 486.82 Mbit/s
95th percentile per-packet one-way delay: 193.731 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 483.93 Mbit/s
95th percentile per-packet one-way delay: 193.786 ms
Loss rate: 3.24%
-- Flow 2:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 192.487 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 191.632 ms
Loss rate: 1.17%
```

Run 10: Report of PCC — Data Link

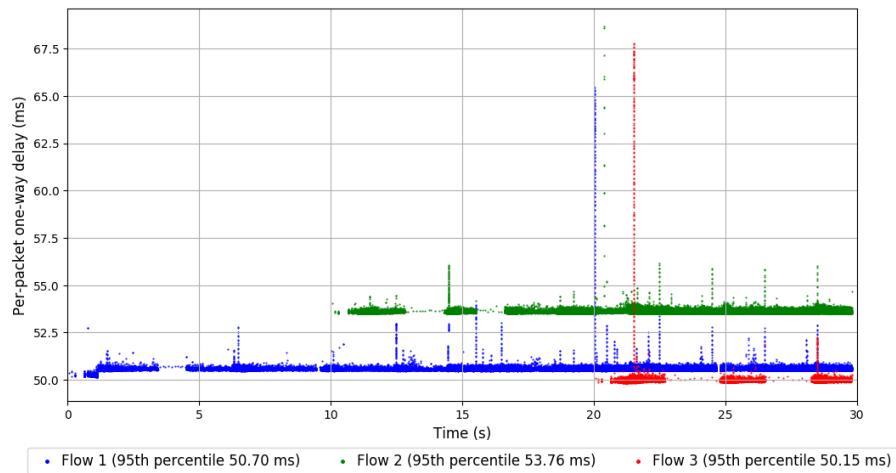
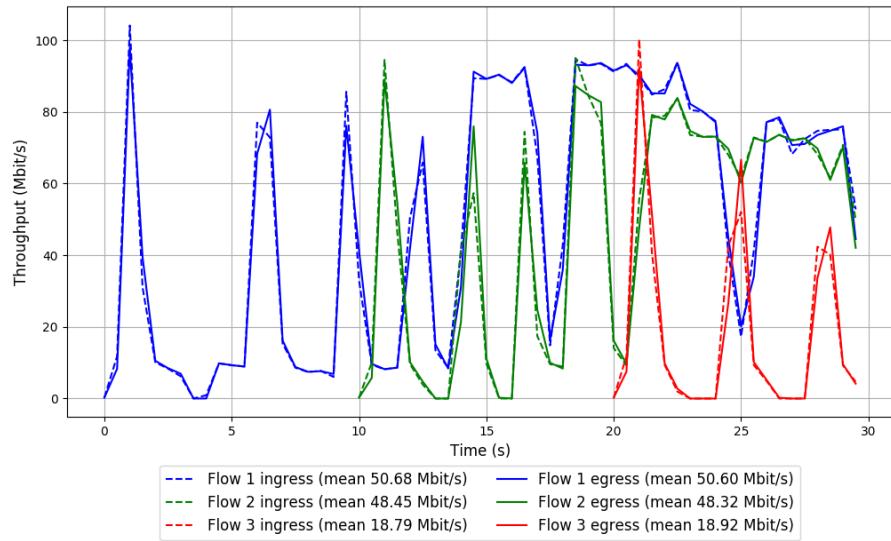


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-14 05:42:39
End at: 2018-02-14 05:43:09

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 48.32 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 18.92 Mbit/s
95th percentile per-packet one-way delay: 50.146 ms
Loss rate: 0.35%
```

Run 1: Report of QUIC Cubic — Data Link



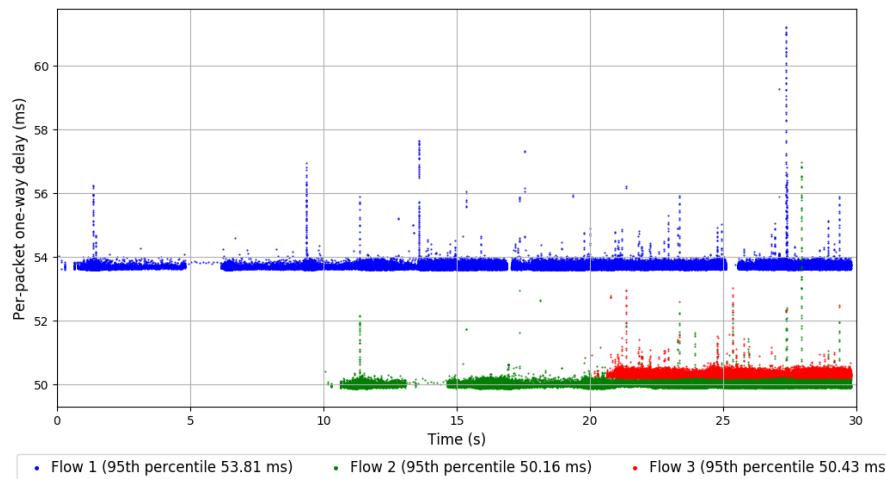
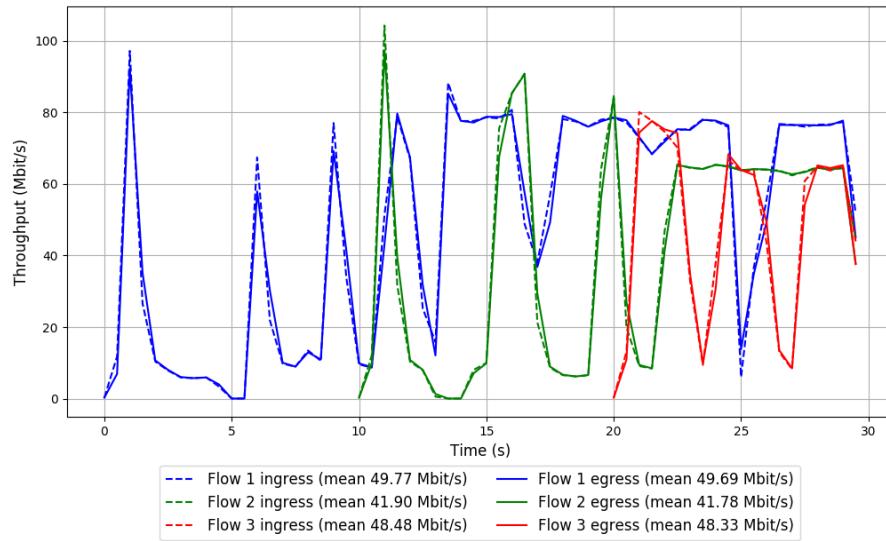
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-14 06:00:02

End at: 2018-02-14 06:00:32

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 53.809 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 41.78 Mbit/s
95th percentile per-packet one-way delay: 50.163 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 48.33 Mbit/s
95th percentile per-packet one-way delay: 50.426 ms
Loss rate: 1.33%
```

Run 2: Report of QUIC Cubic — Data Link



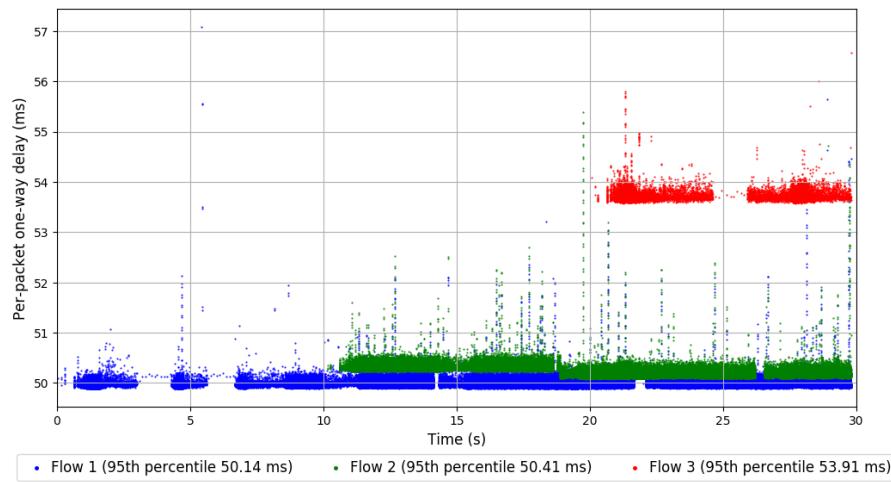
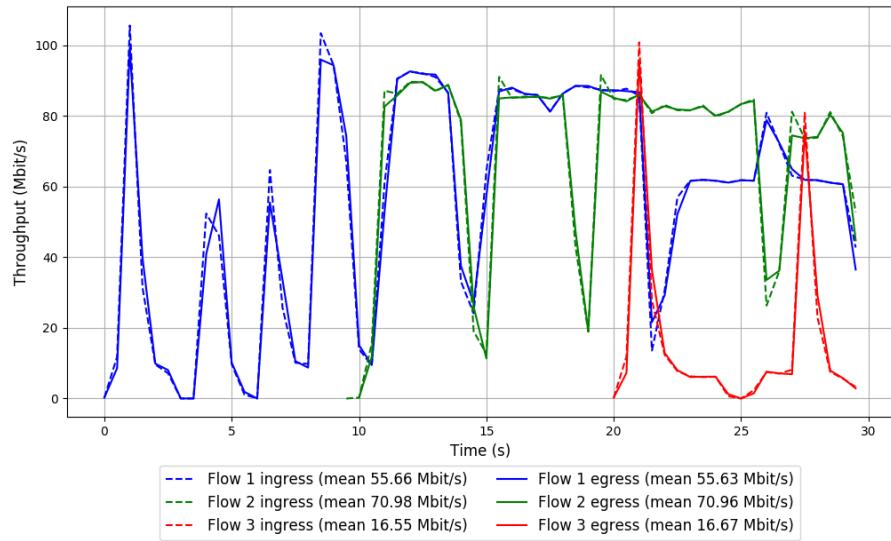
```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2018-02-14 06:17:25
```

```
End at: 2018-02-14 06:17:55
```

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.18 Mbit/s
95th percentile per-packet one-way delay: 53.603 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 50.136 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 70.96 Mbit/s
95th percentile per-packet one-way delay: 50.409 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.30%
```

Run 3: Report of QUIC Cubic — Data Link



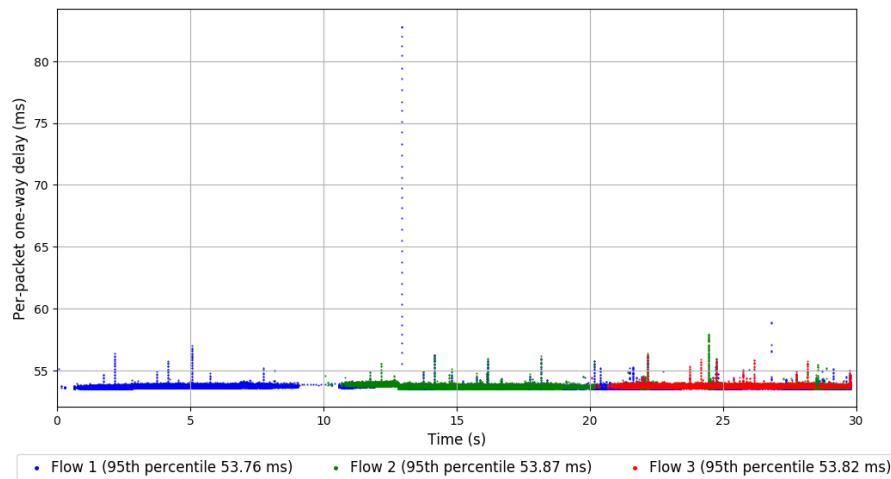
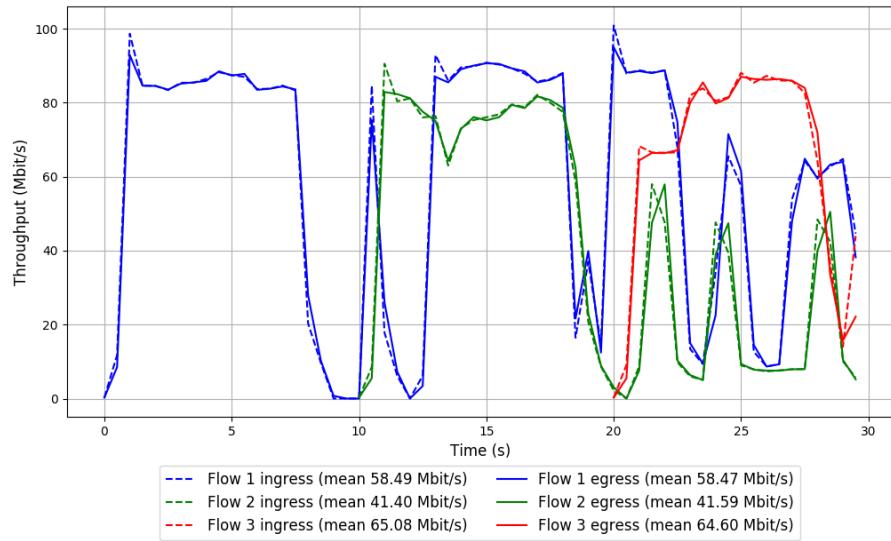
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-14 06:34:47

End at: 2018-02-14 06:35:17

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.18 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 58.47 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 41.59 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 53.823 ms
Loss rate: 1.79%
```

Run 4: Report of QUIC Cubic — Data Link



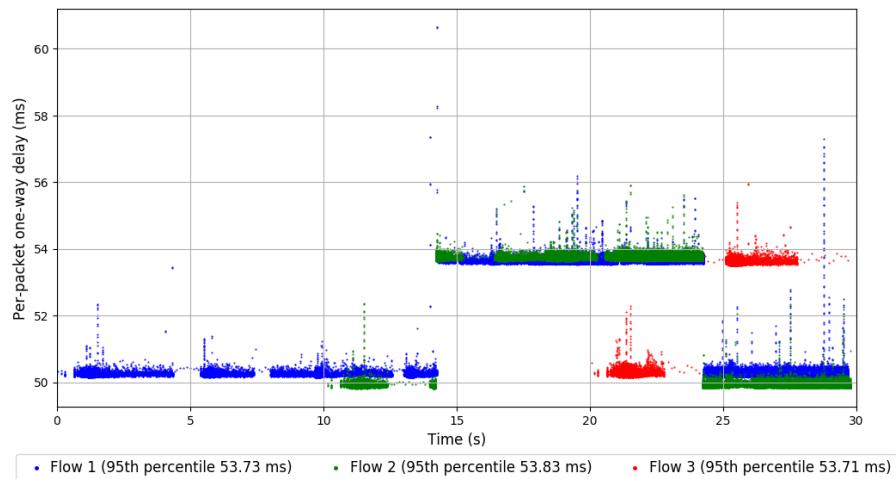
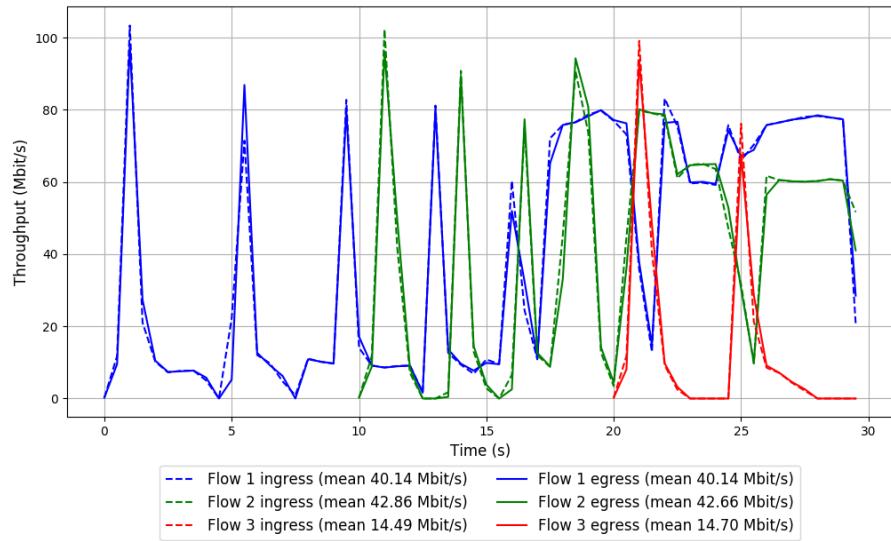
```
Run 5: Statistics of QUIC Cubic
```

```
Start at: 2018-02-14 06:52:16
```

```
End at: 2018-02-14 06:52:46
```

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.06 Mbit/s
95th percentile per-packet one-way delay: 53.785 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 53.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 53.827 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link



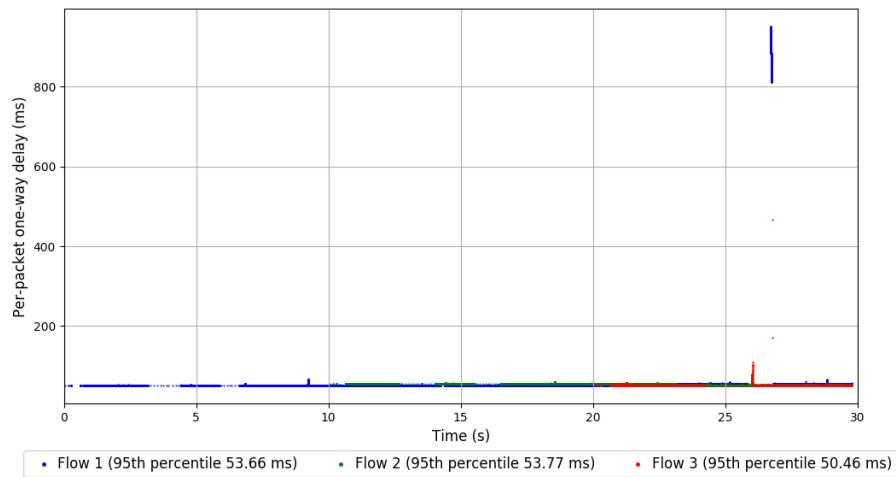
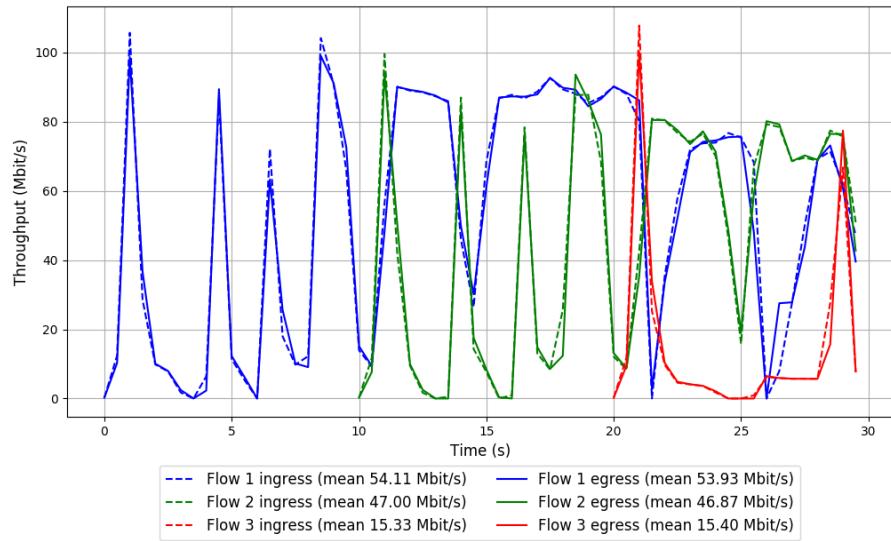
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-14 07:09:47

End at: 2018-02-14 07:10:17

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 53.93 Mbit/s
95th percentile per-packet one-way delay: 53.657 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 46.87 Mbit/s
95th percentile per-packet one-way delay: 53.766 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 50.459 ms
Loss rate: 0.59%
```

Run 6: Report of QUIC Cubic — Data Link



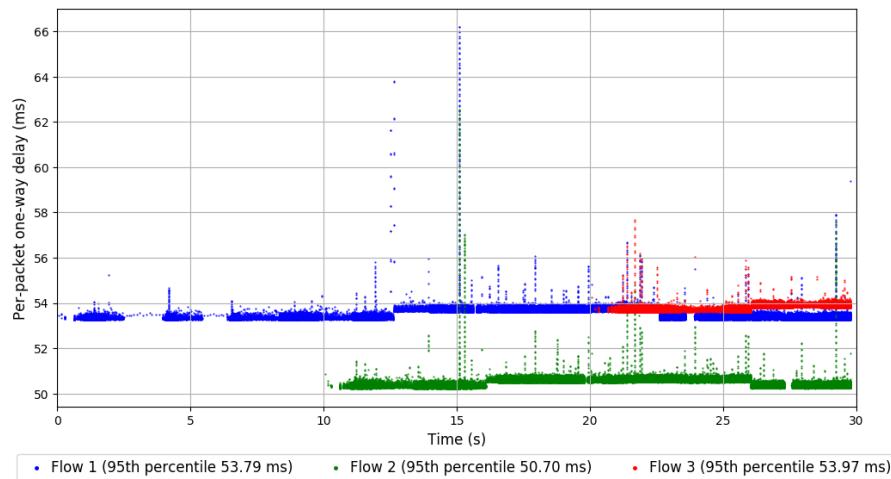
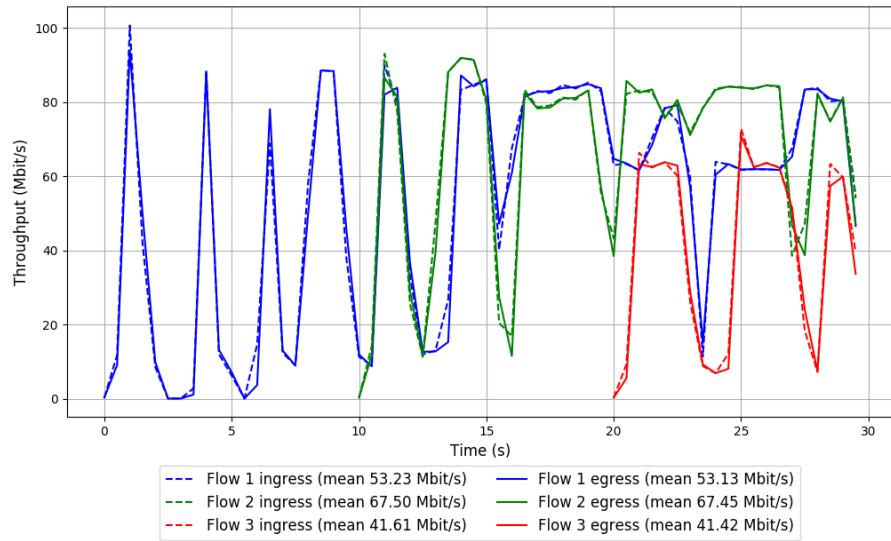
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-14 07:27:18

End at: 2018-02-14 07:27:48

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.40 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 67.45 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 41.42 Mbit/s
95th percentile per-packet one-way delay: 53.974 ms
Loss rate: 1.52%
```

Run 7: Report of QUIC Cubic — Data Link



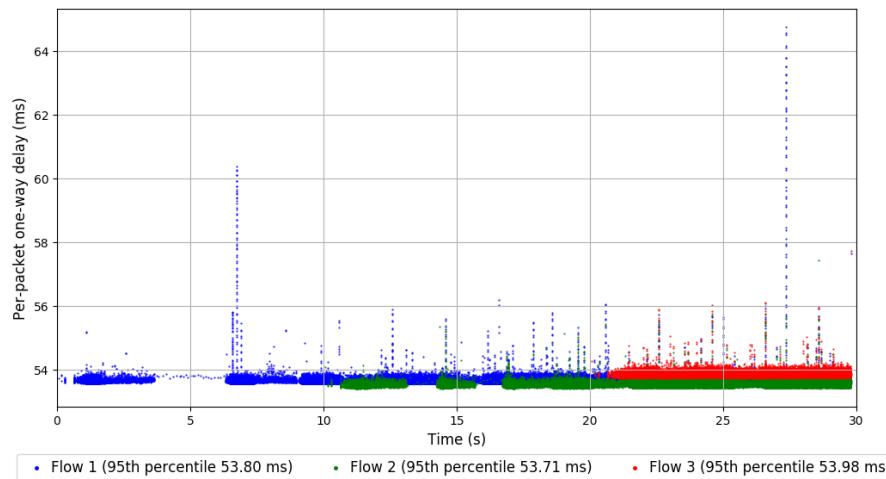
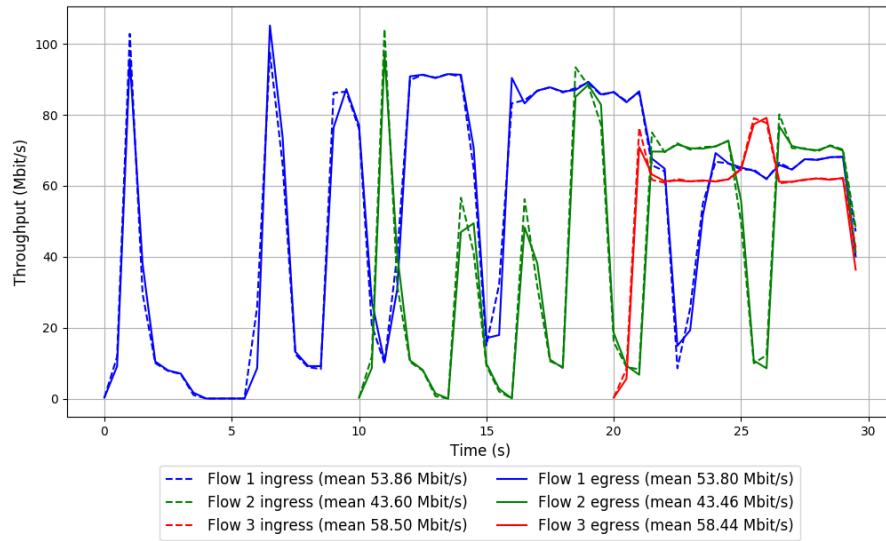
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-14 07:44:23

End at: 2018-02-14 07:44:53

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.72 Mbit/s
95th percentile per-packet one-way delay: 53.889 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 53.803 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 1.12%
```

Run 8: Report of QUIC Cubic — Data Link



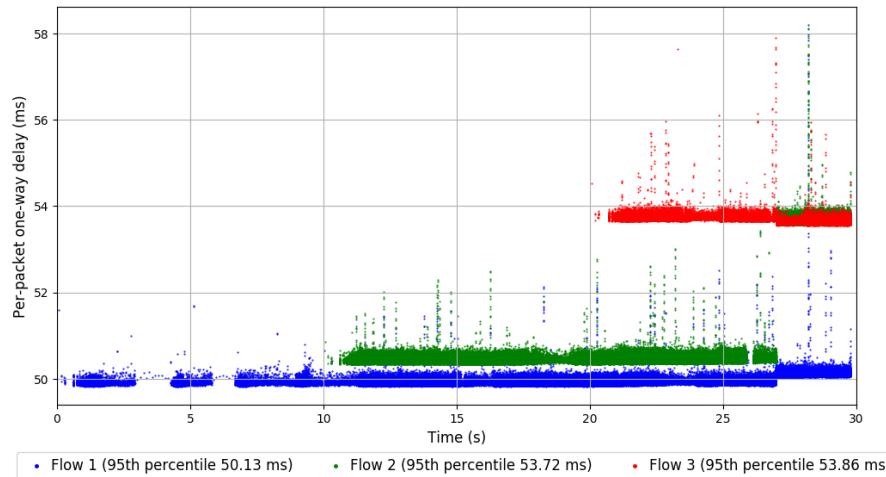
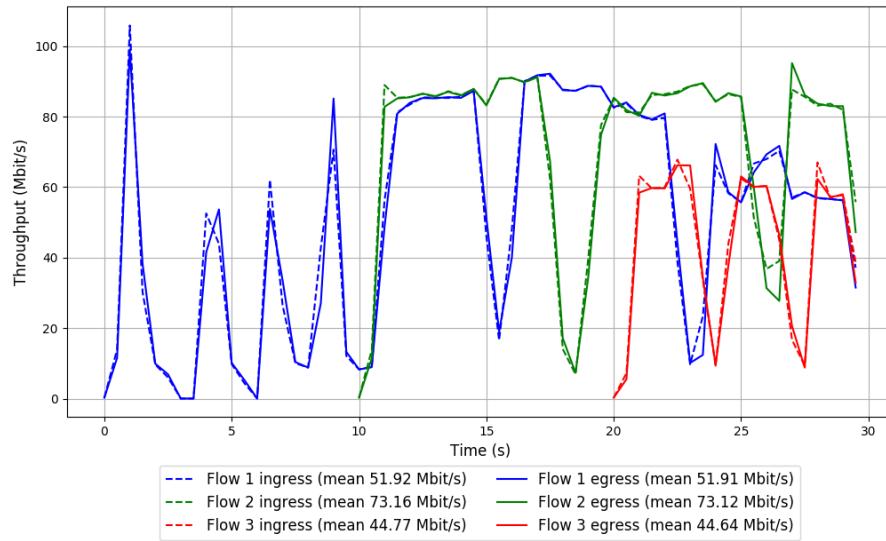
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-14 08:01:53

End at: 2018-02-14 08:02:23

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.99 Mbit/s
95th percentile per-packet one-way delay: 53.760 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 50.133 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 53.715 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 44.64 Mbit/s
95th percentile per-packet one-way delay: 53.860 ms
Loss rate: 1.37%
```

Run 9: Report of QUIC Cubic — Data Link



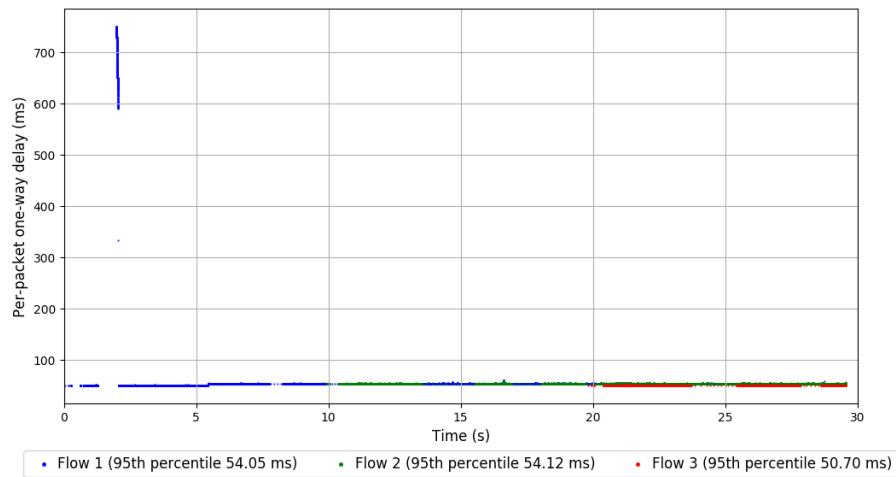
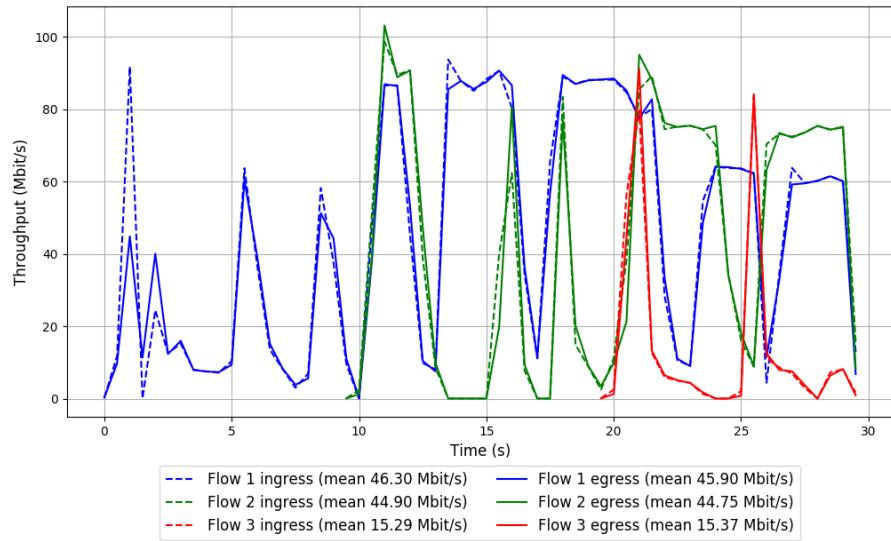
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-14 08:19:15

End at: 2018-02-14 08:19:45

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.89 Mbit/s
95th percentile per-packet one-way delay: 54.086 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 54.122 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 0.53%
```

Run 10: Report of QUIC Cubic — Data Link

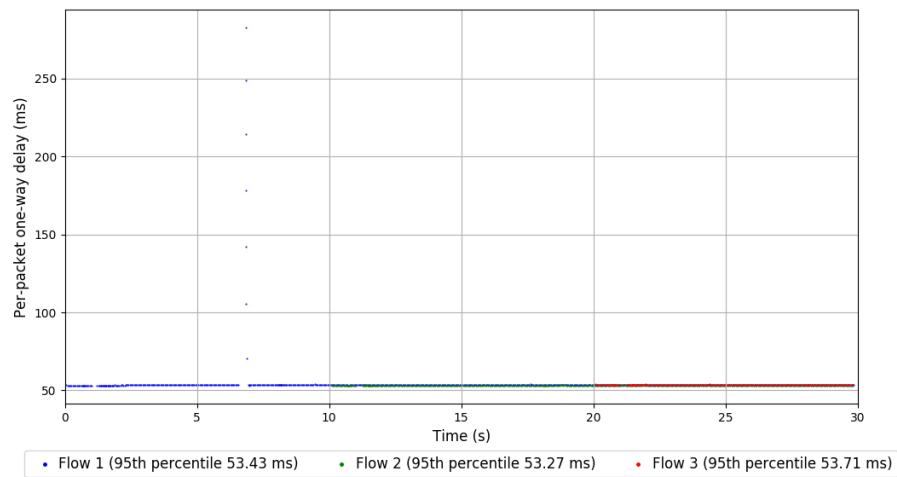
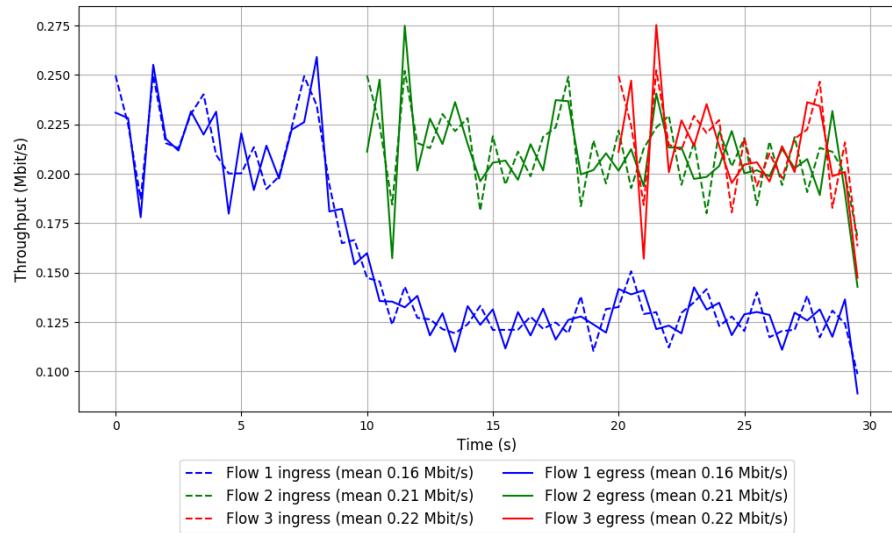


```
Run 1: Statistics of SCReAM

Start at: 2018-02-14 05:48:08
End at: 2018-02-14 05:48:38

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.268 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 1.11%
```

Run 1: Report of SCReAM — Data Link



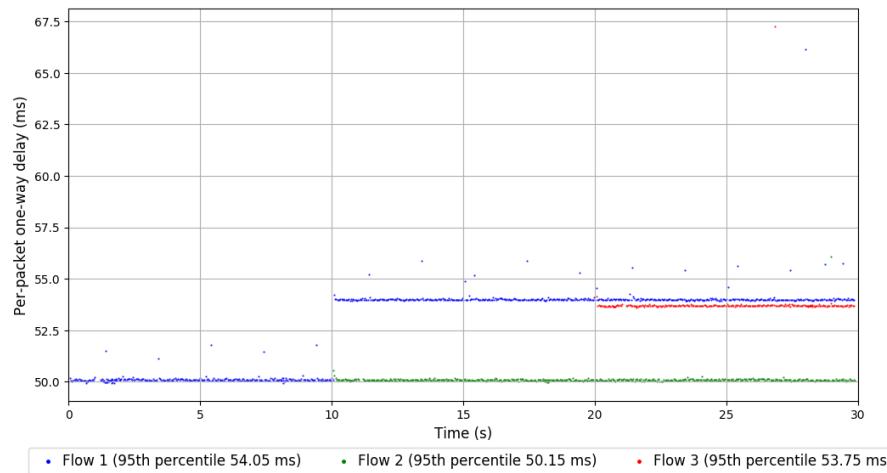
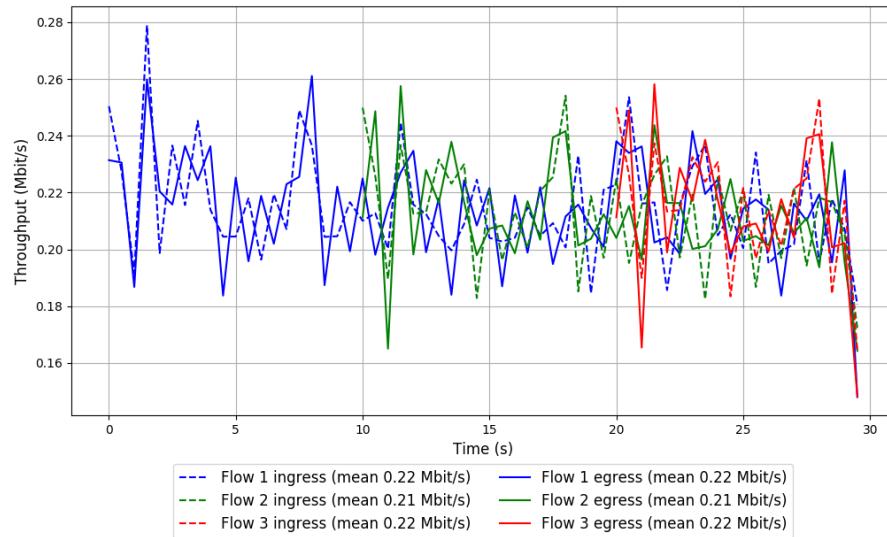
Run 2: Statistics of SCReAM

Start at: 2018-02-14 06:05:30

End at: 2018-02-14 06:06:00

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.028 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.150 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.751 ms
Loss rate: 1.10%
```

Run 2: Report of SCReAM — Data Link



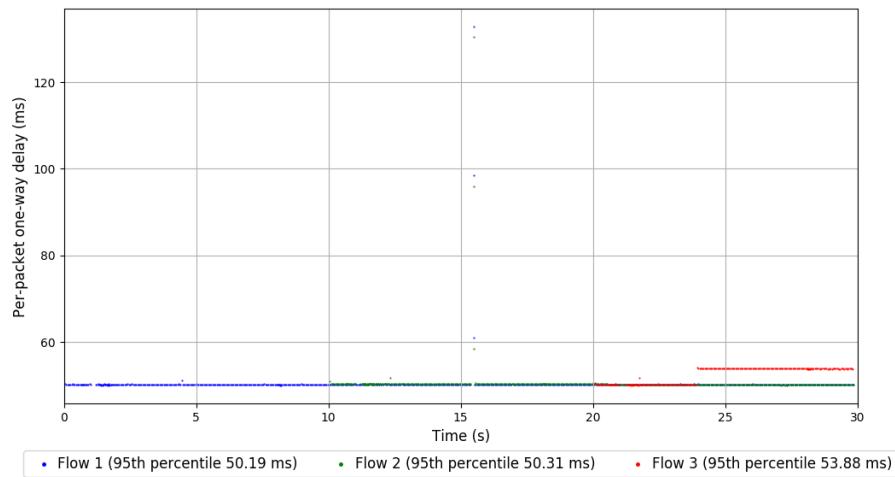
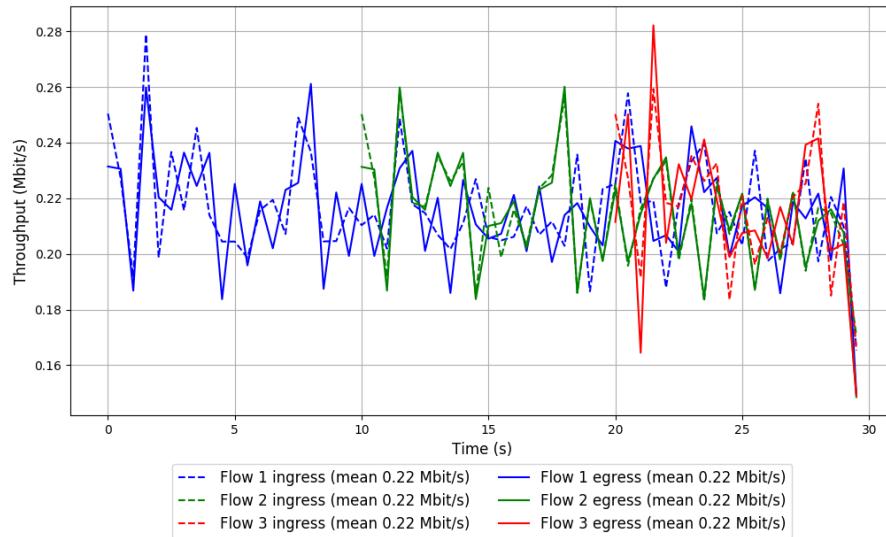
Run 3: Statistics of SCReAM

Start at: 2018-02-14 06:23:00

End at: 2018-02-14 06:23:30

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.818 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.191 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.312 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.879 ms
Loss rate: 1.10%
```

Run 3: Report of SCReAM — Data Link



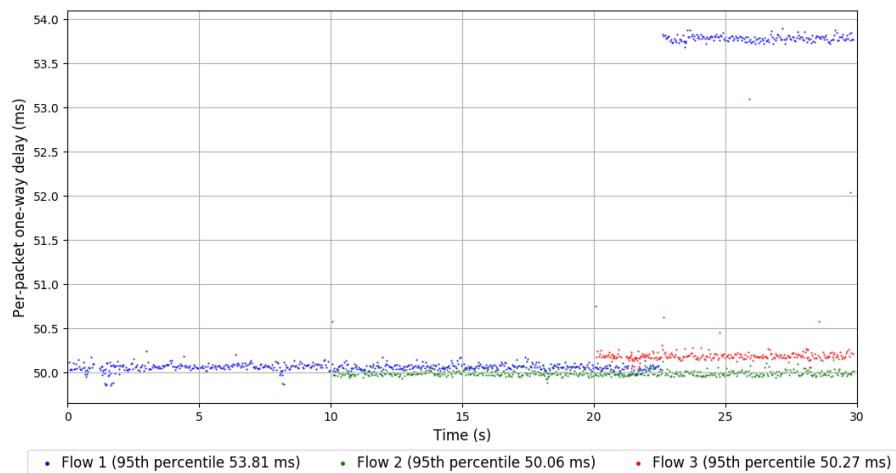
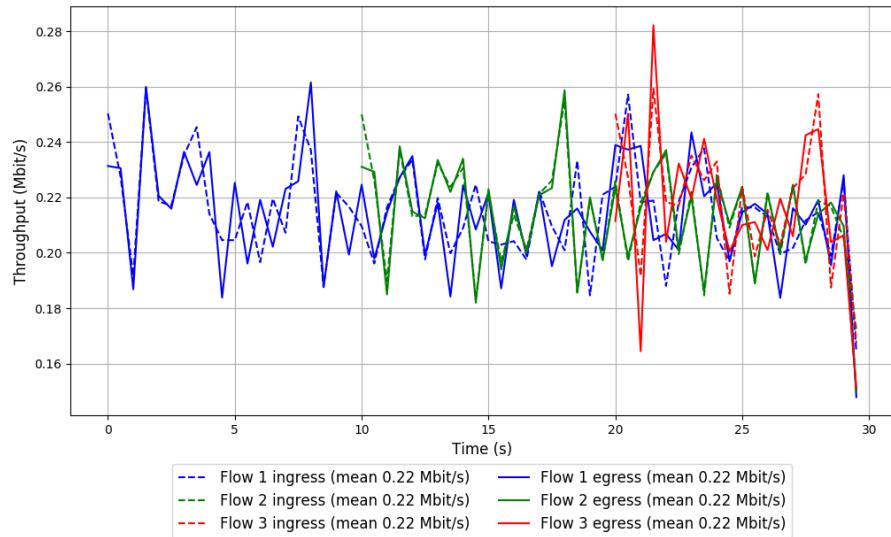
Run 4: Statistics of SCReAM

Start at: 2018-02-14 06:40:28

End at: 2018-02-14 06:40:58

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.790 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.807 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.059 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.265 ms
Loss rate: 1.11%
```

Run 4: Report of SCReAM — Data Link



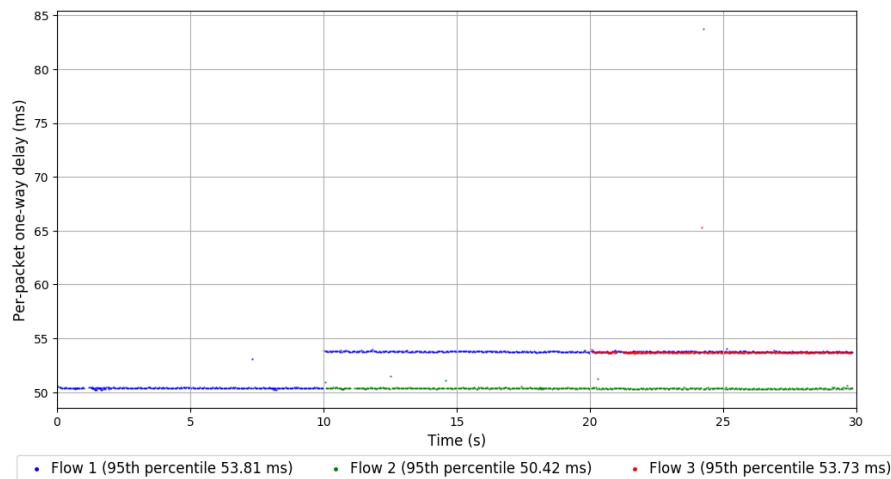
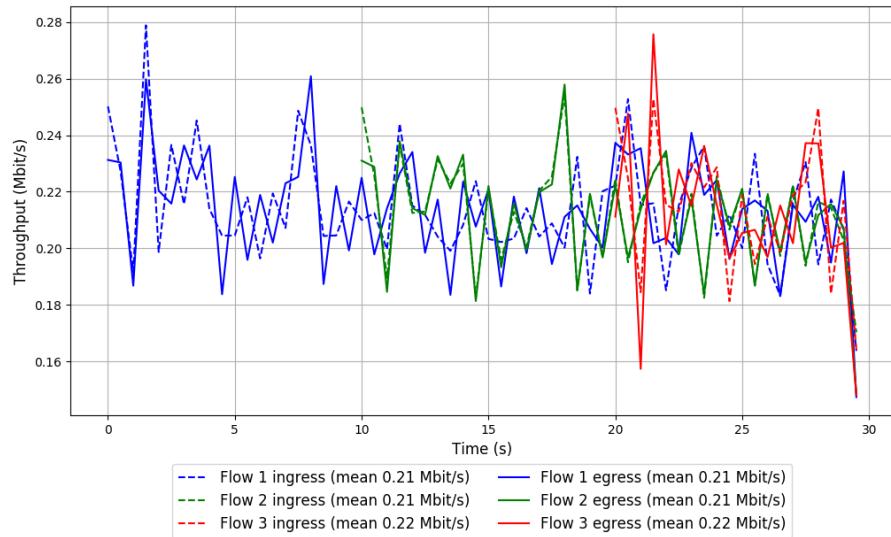
Run 5: Statistics of SCReAM

Start at: 2018-02-14 06:57:50

End at: 2018-02-14 06:58:20

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.421 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.730 ms
Loss rate: 1.11%
```

Run 5: Report of SCReAM — Data Link



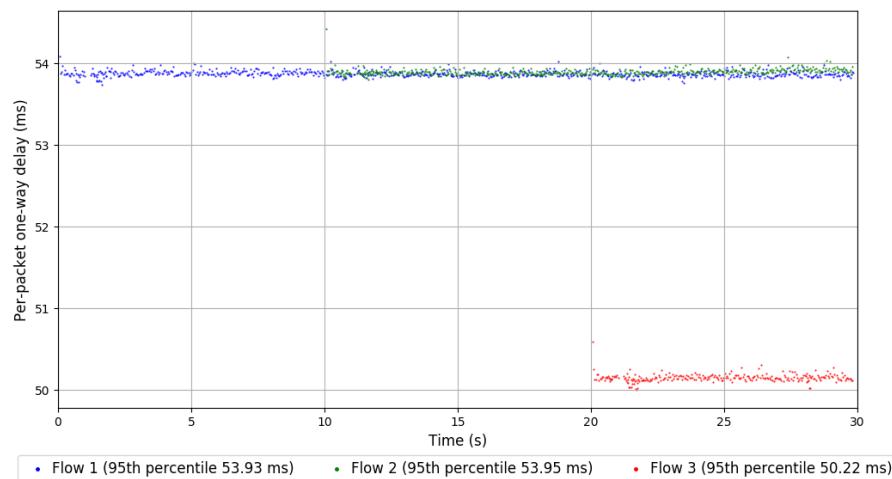
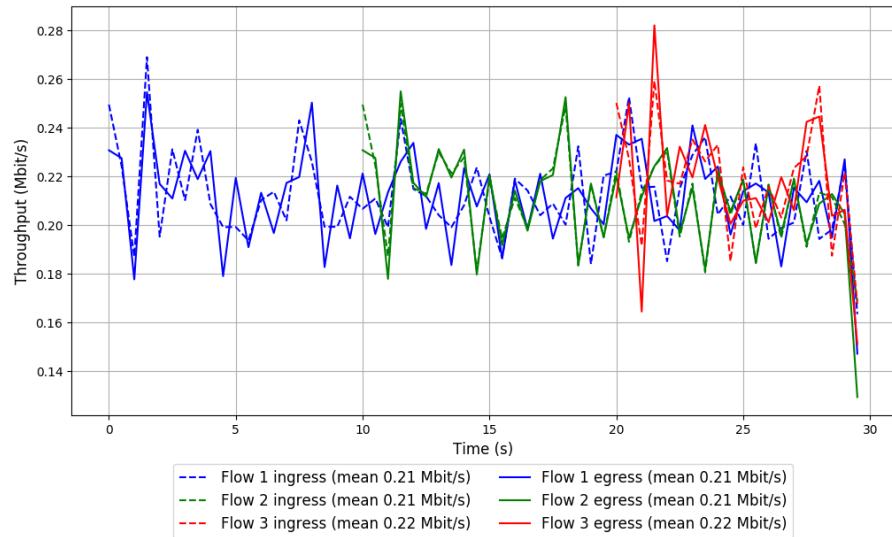
Run 6: Statistics of SCReAM

Start at: 2018-02-14 07:15:28

End at: 2018-02-14 07:15:58

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.939 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.934 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.952 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.222 ms
Loss rate: 1.11%
```

Run 6: Report of SCReAM — Data Link



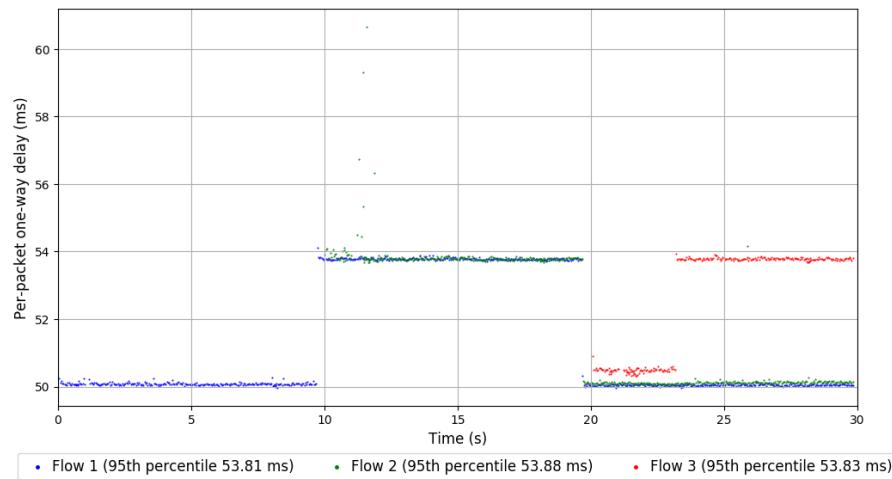
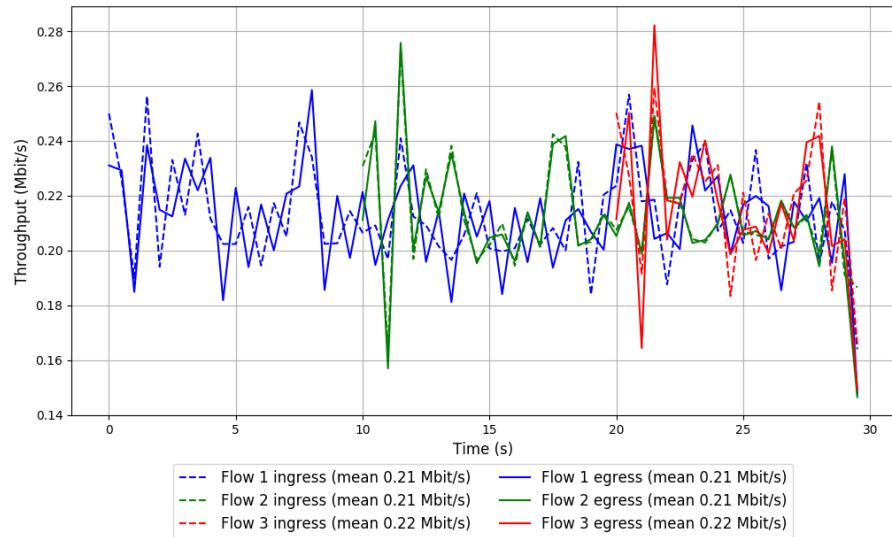
Run 7: Statistics of SCReAM

Start at: 2018-02-14 07:32:31

End at: 2018-02-14 07:33:01

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.830 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.807 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.877 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.832 ms
Loss rate: 1.10%
```

Run 7: Report of SCReAM — Data Link



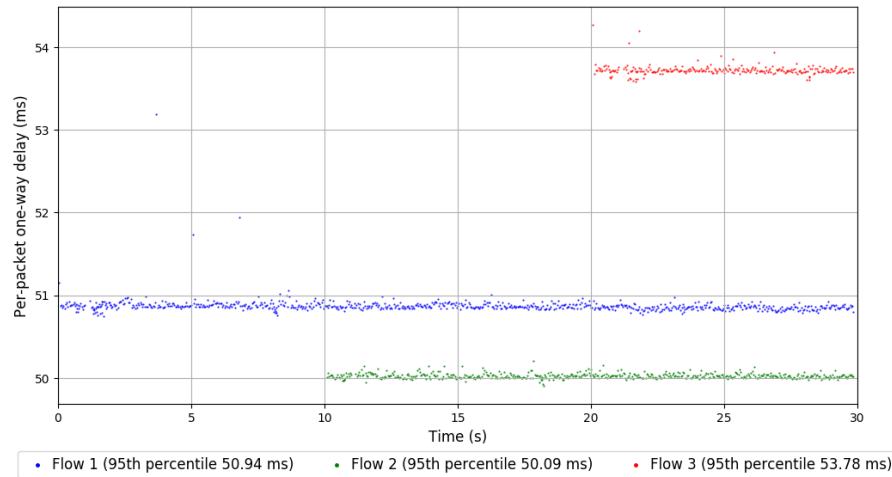
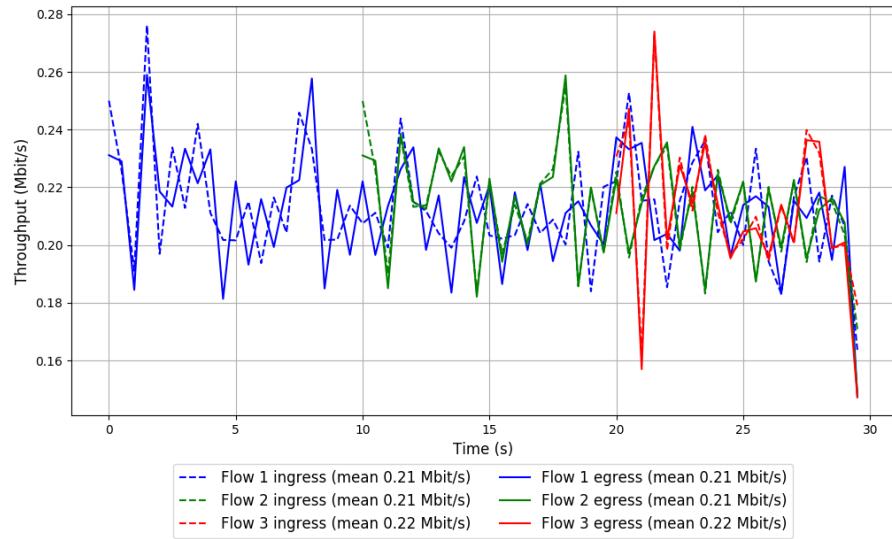
Run 8: Statistics of SCReAM

Start at: 2018-02-14 07:49:55

End at: 2018-02-14 07:50:25

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.732 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.935 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.089 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.778 ms
Loss rate: 1.11%
```

Run 8: Report of SCReAM — Data Link



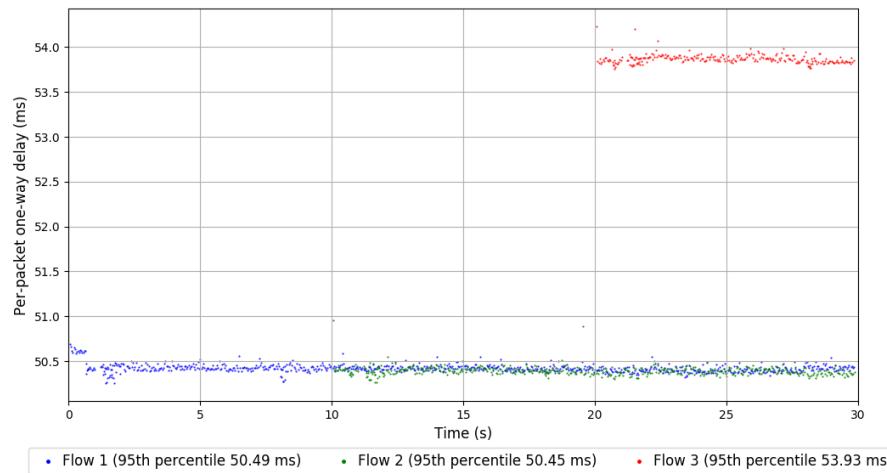
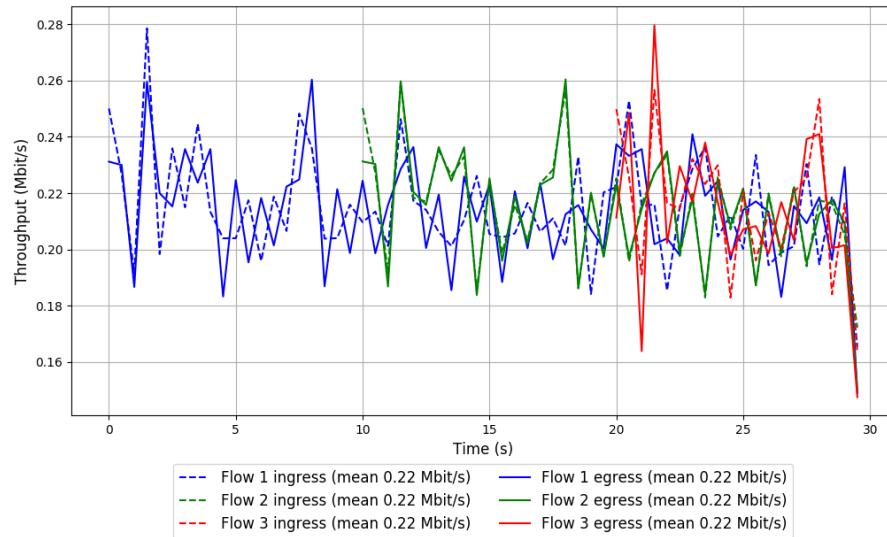
Run 9: Statistics of SCReAM

Start at: 2018-02-14 08:07:20

End at: 2018-02-14 08:07:50

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.490 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.454 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.927 ms
Loss rate: 1.09%
```

Run 9: Report of SCReAM — Data Link



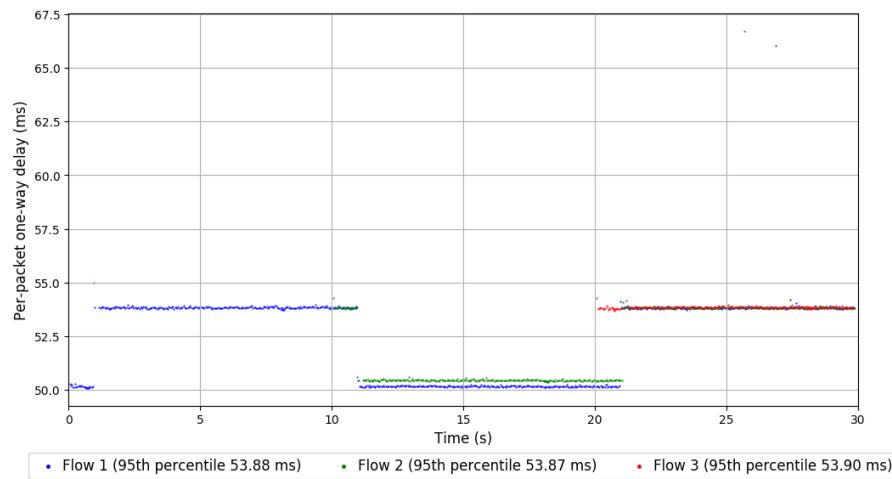
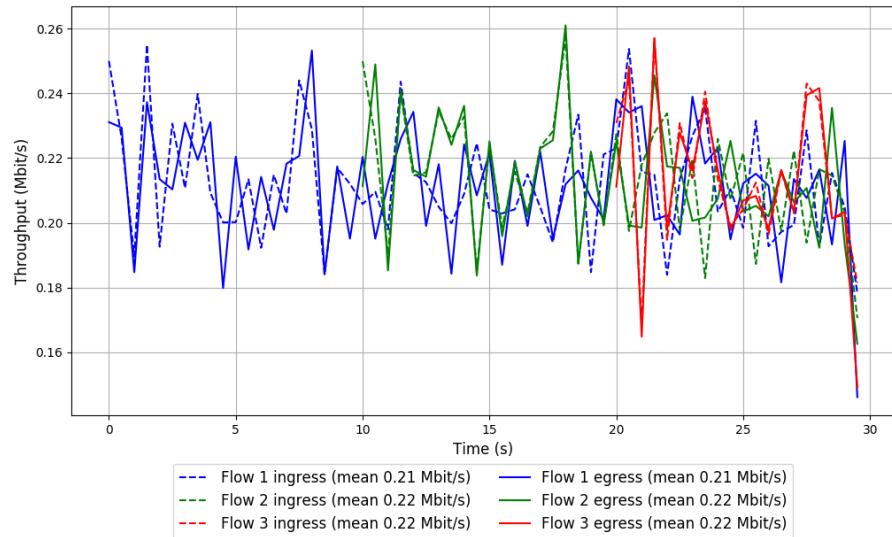
Run 10: Statistics of SCReAM

Start at: 2018-02-14 08:24:29

End at: 2018-02-14 08:24:59

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.882 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.870 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.899 ms
Loss rate: 1.11%
```

Run 10: Report of SCReAM — Data Link

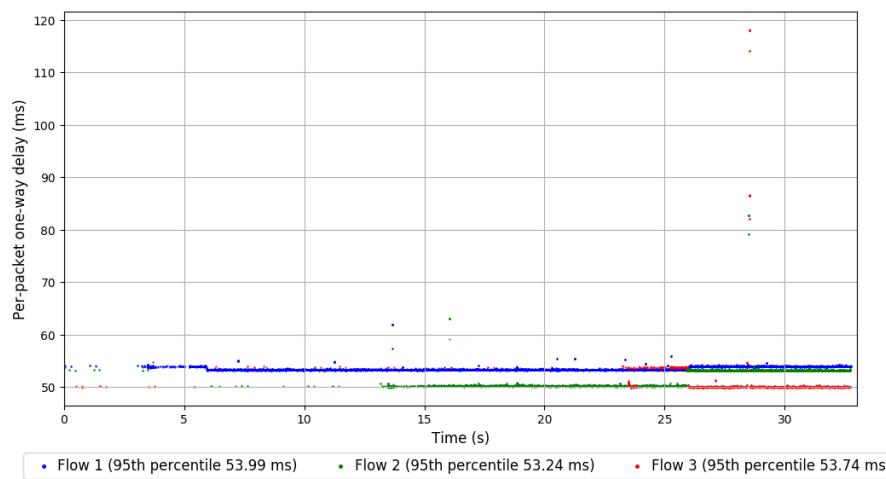
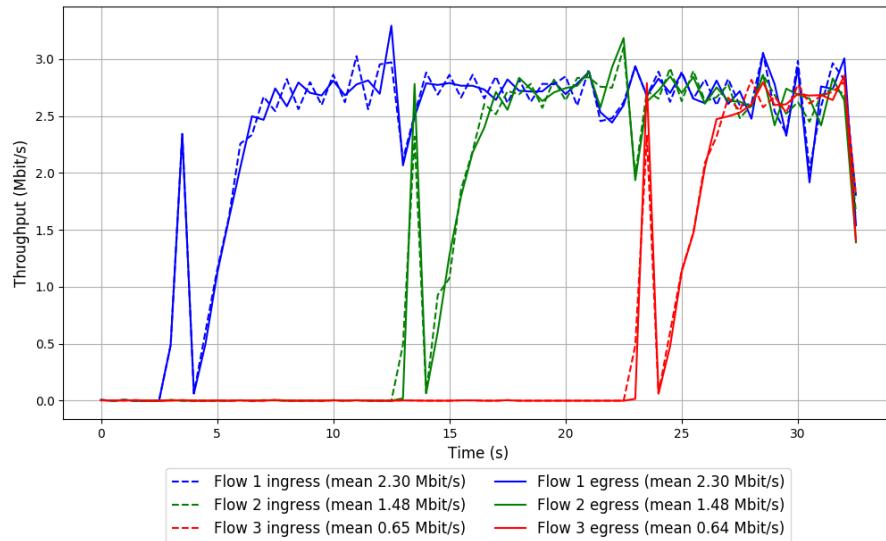


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-14 05:48:47
End at: 2018-02-14 05:49:17

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 53.952 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 53.992 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 53.236 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 1.51%
```

Run 1: Report of WebRTC media — Data Link

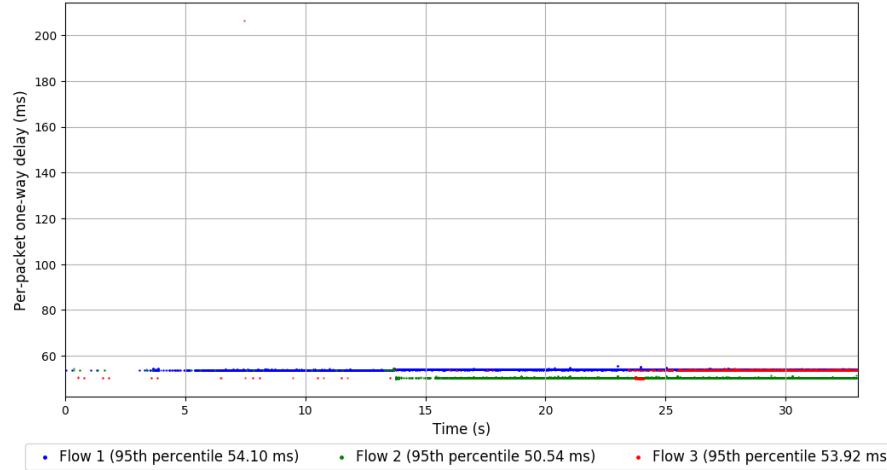
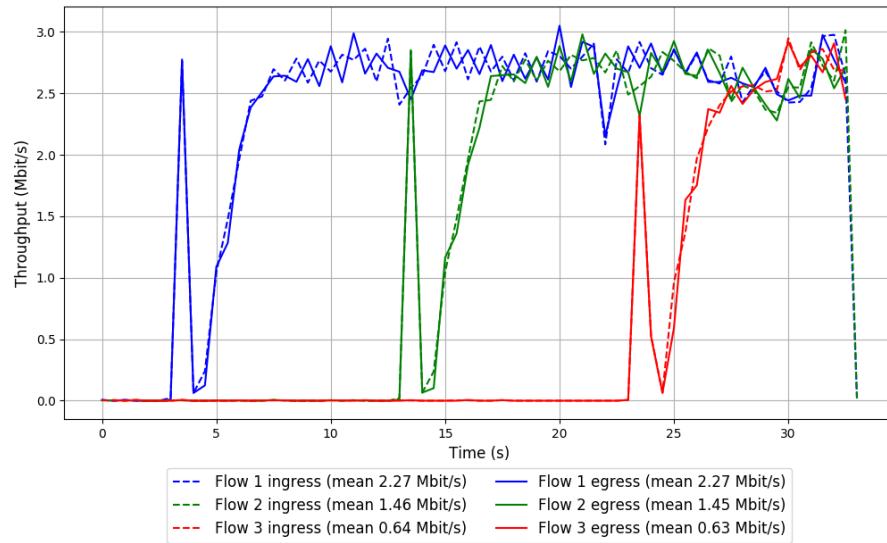


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-14 06:06:10
End at: 2018-02-14 06:06:40

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 54.061 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 54.100 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 50.543 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 53.916 ms
Loss rate: 1.09%
```

Run 2: Report of WebRTC media — Data Link

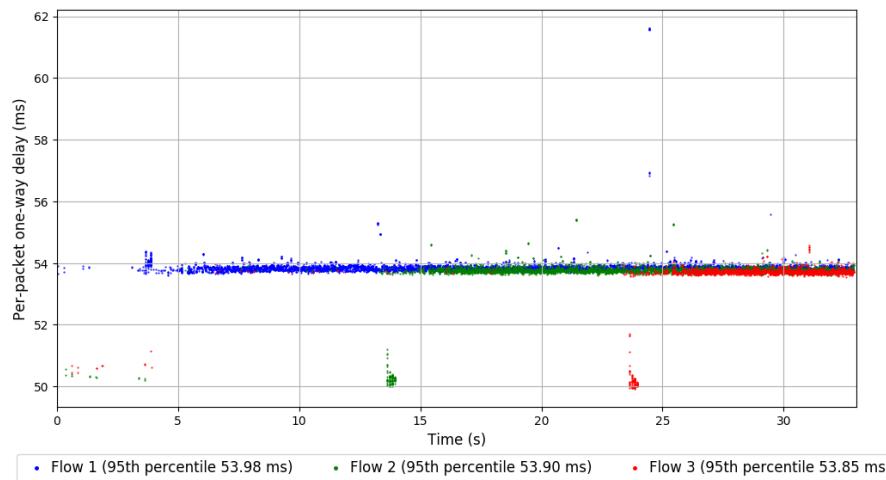
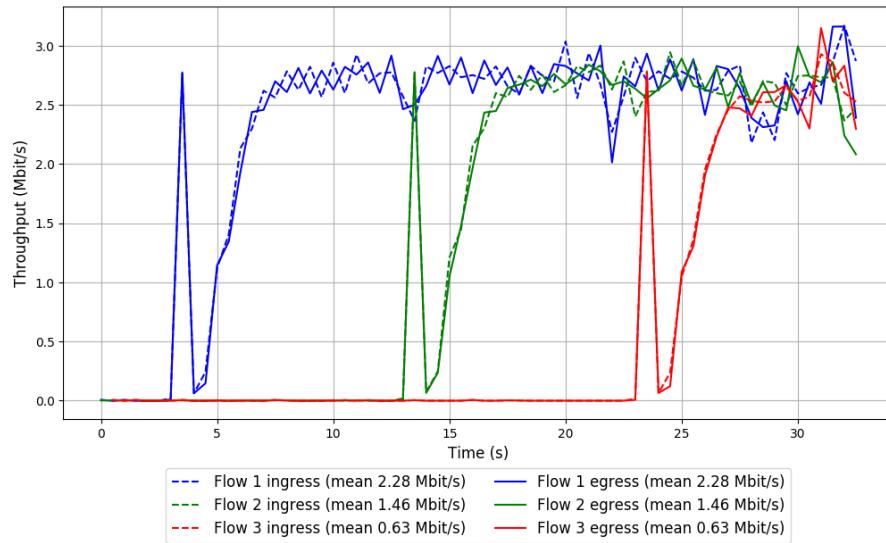


```
Run 3: Statistics of WebRTC media

Start at: 2018-02-14 06:23:39
End at: 2018-02-14 06:24:09

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 53.942 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.982 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 53.847 ms
Loss rate: 1.10%
```

Run 3: Report of WebRTC media — Data Link

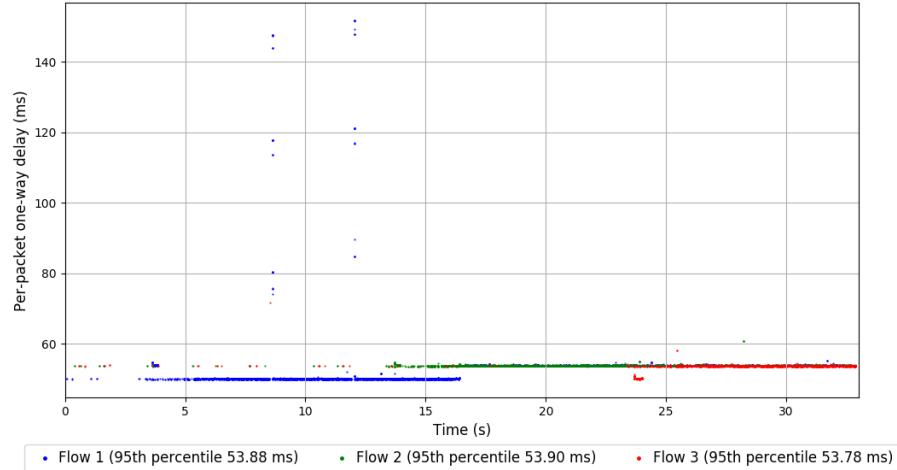
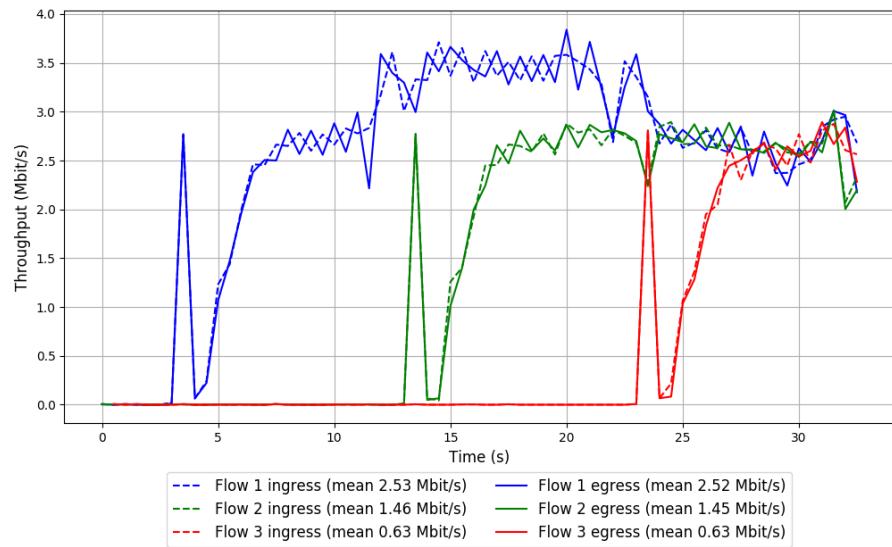


```
Run 4: Statistics of WebRTC media

Start at: 2018-02-14 06:41:07
End at: 2018-02-14 06:41:37

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 53.882 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 53.878 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 53.785 ms
Loss rate: 1.24%
```

Run 4: Report of WebRTC media — Data Link



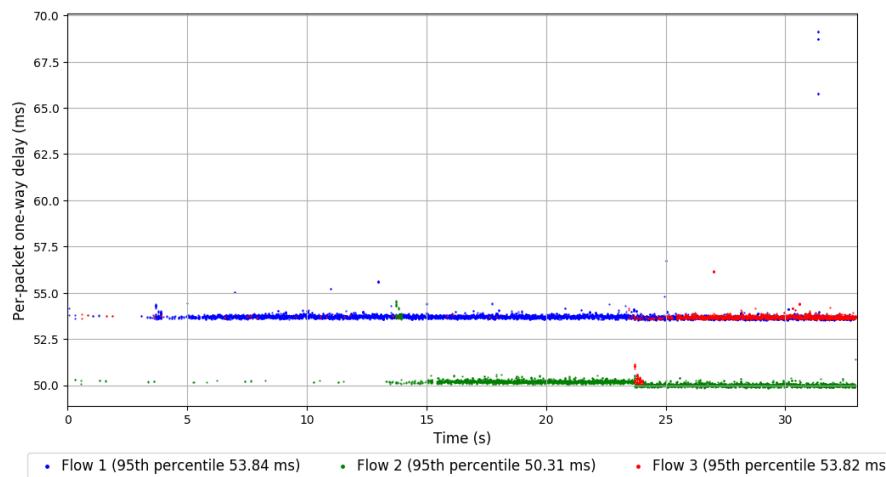
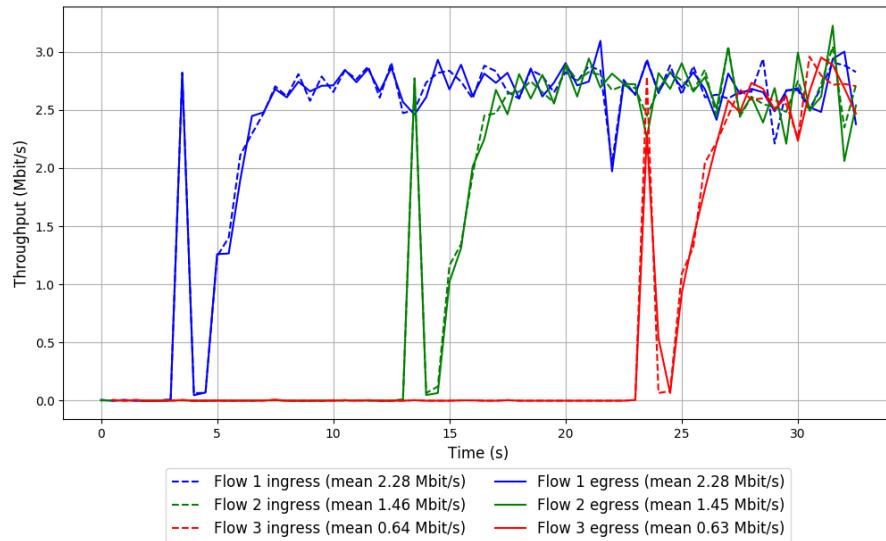
Run 5: Statistics of WebRTC media

Start at: 2018-02-14 06:58:30

End at: 2018-02-14 06:59:00

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.837 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 50.313 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 1.17%
```

Run 5: Report of WebRTC media — Data Link

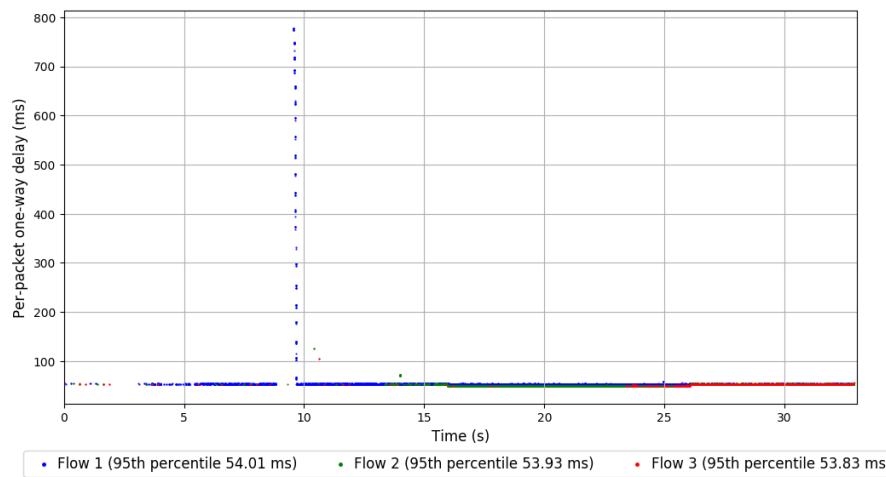
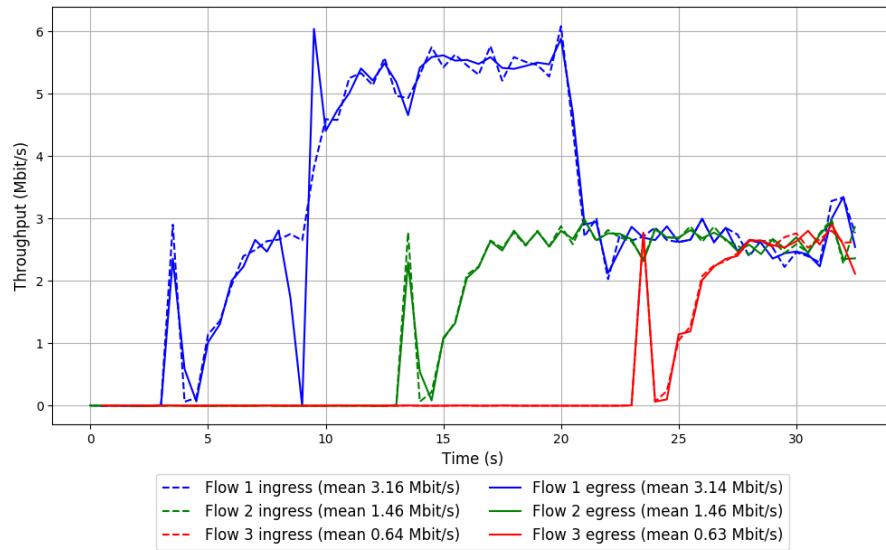


```
Run 6: Statistics of WebRTC media

Start at: 2018-02-14 07:16:07
End at: 2018-02-14 07:16:37

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 54.009 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 53.929 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 53.828 ms
Loss rate: 1.81%
```

Run 6: Report of WebRTC media — Data Link

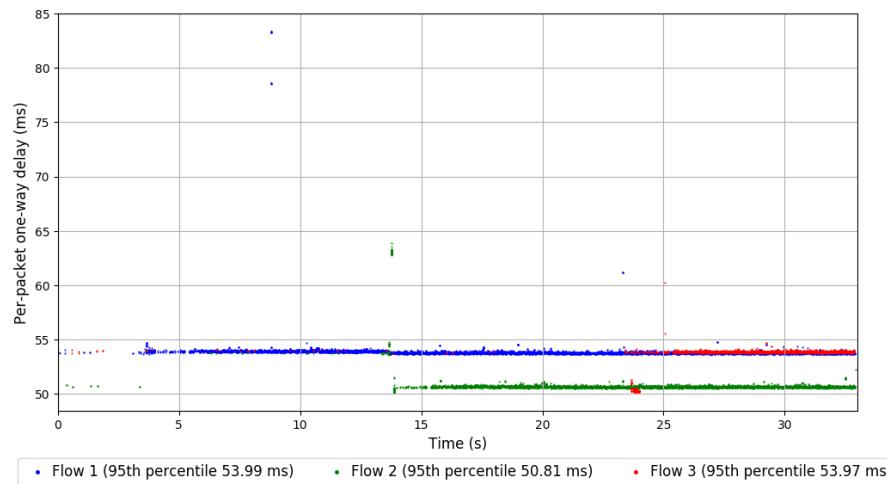
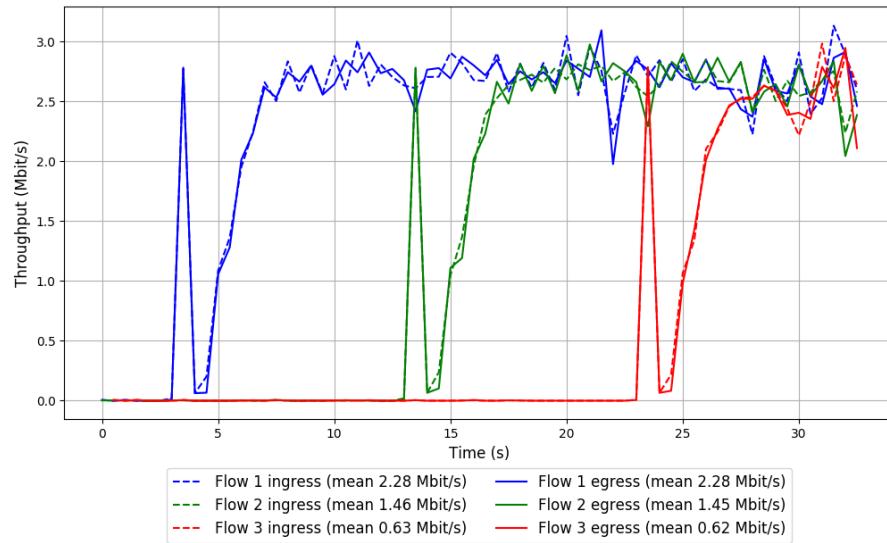


```
Run 7: Statistics of WebRTC media

Start at: 2018-02-14 07:33:10
End at: 2018-02-14 07:33:40

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 53.973 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.995 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 50.807 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 53.973 ms
Loss rate: 1.90%
```

Run 7: Report of WebRTC media — Data Link

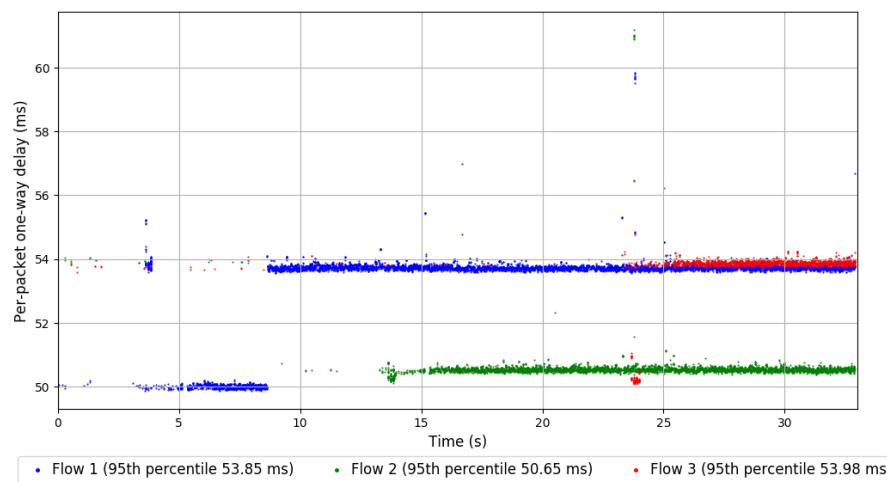
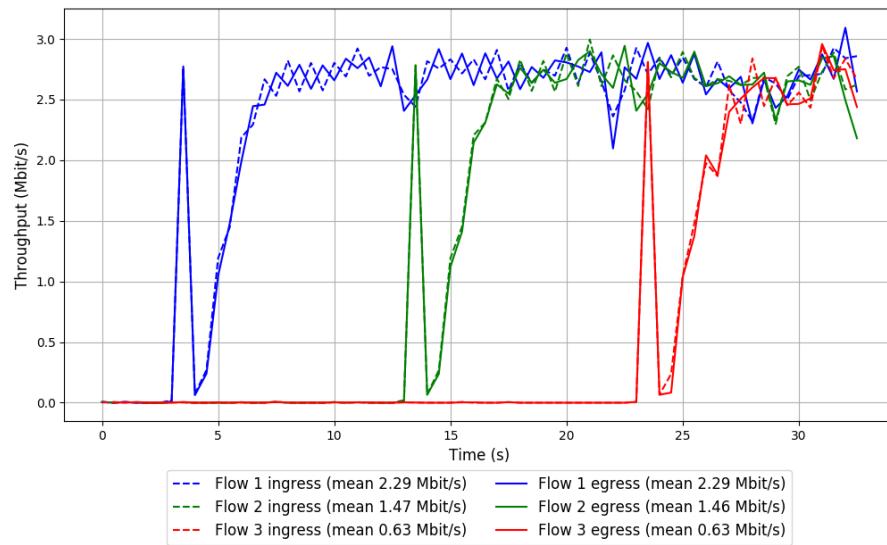


```
Run 8: Statistics of WebRTC media

Start at: 2018-02-14 07:50:35
End at: 2018-02-14 07:51:05

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 53.906 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 50.646 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 53.983 ms
Loss rate: 1.13%
```

Run 8: Report of WebRTC media — Data Link

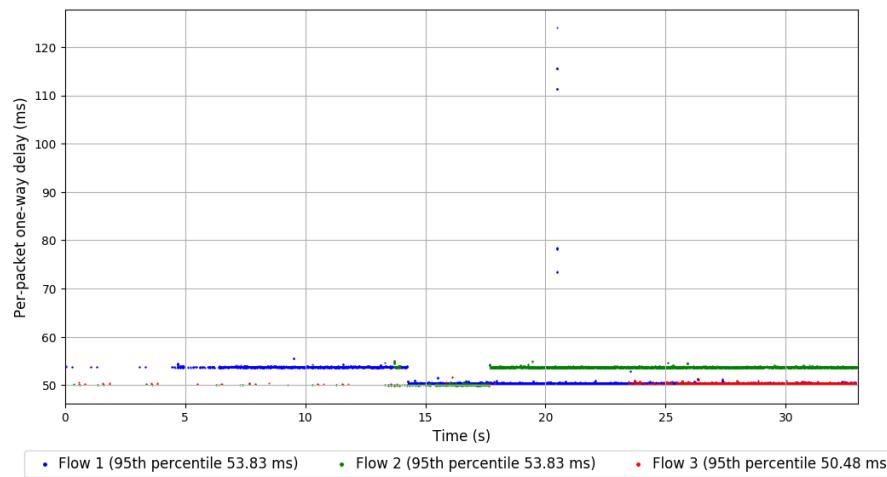
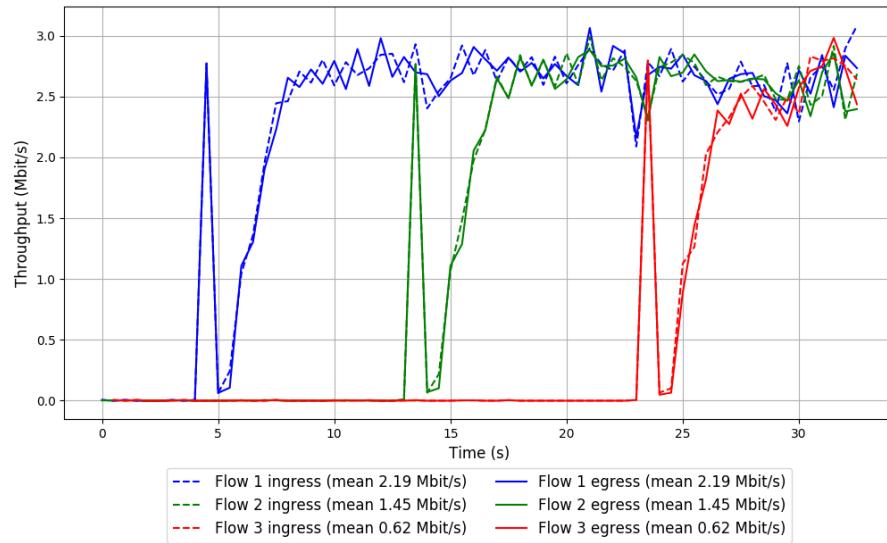


```
Run 9: Statistics of WebRTC media

Start at: 2018-02-14 08:07:59
End at: 2018-02-14 08:08:29

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 53.830 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 53.827 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 50.484 ms
Loss rate: 1.16%
```

Run 9: Report of WebRTC media — Data Link

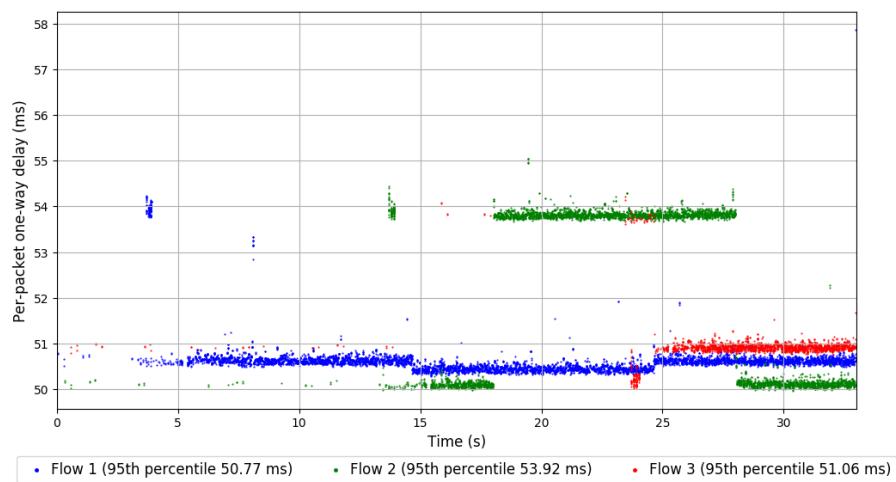
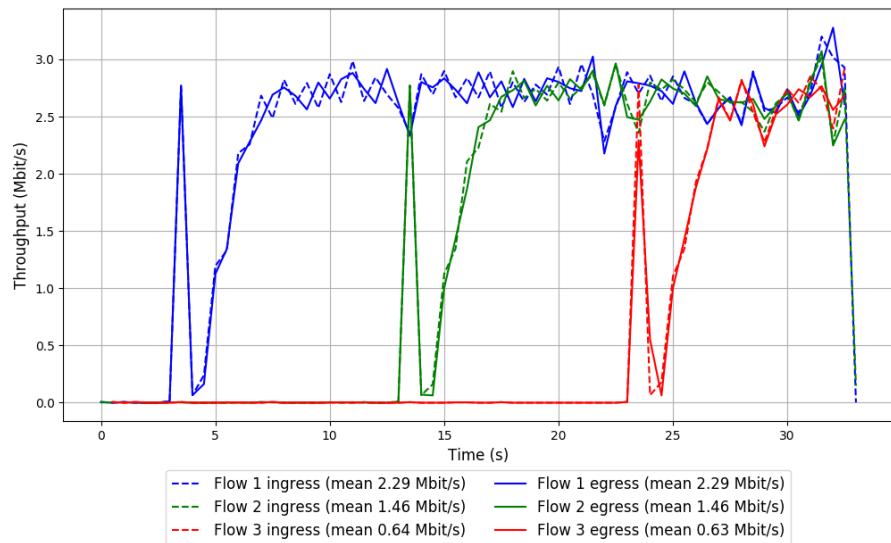


```
Run 10: Statistics of WebRTC media

Start at: 2018-02-14 08:25:09
End at: 2018-02-14 08:25:39

# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 53.924 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 51.062 ms
Loss rate: 1.13%
```

Run 10: Report of WebRTC media — Data Link



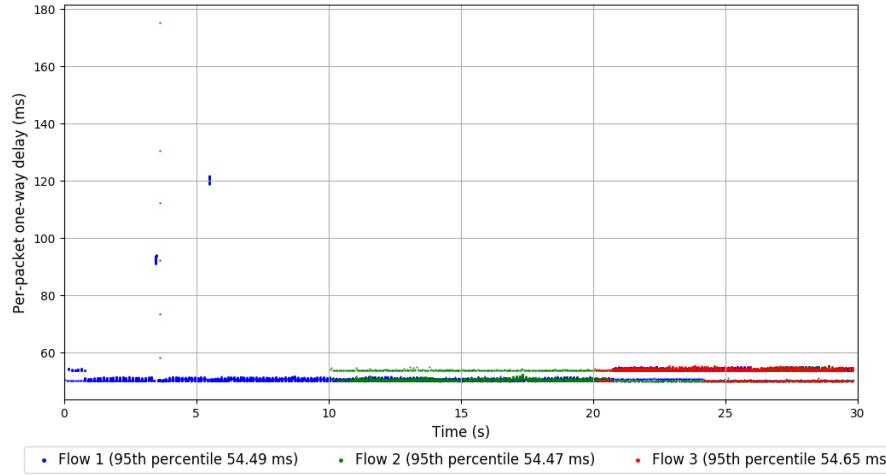
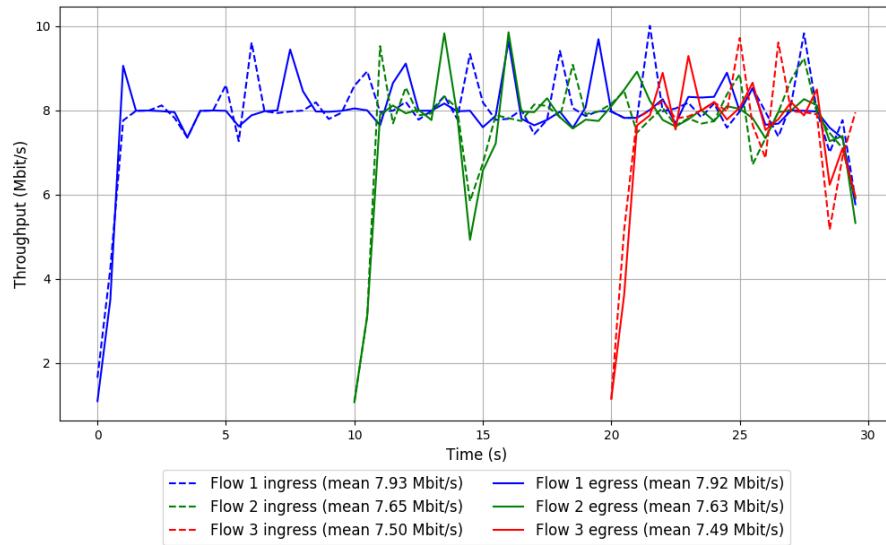
Run 1: Statistics of Sprout

Start at: 2018-02-14 05:37:09

End at: 2018-02-14 05:37:39

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.43 Mbit/s
95th percentile per-packet one-way delay: 54.537 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 54.493 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 54.468 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 54.649 ms
Loss rate: 1.35%
```

Run 1: Report of Sprout — Data Link



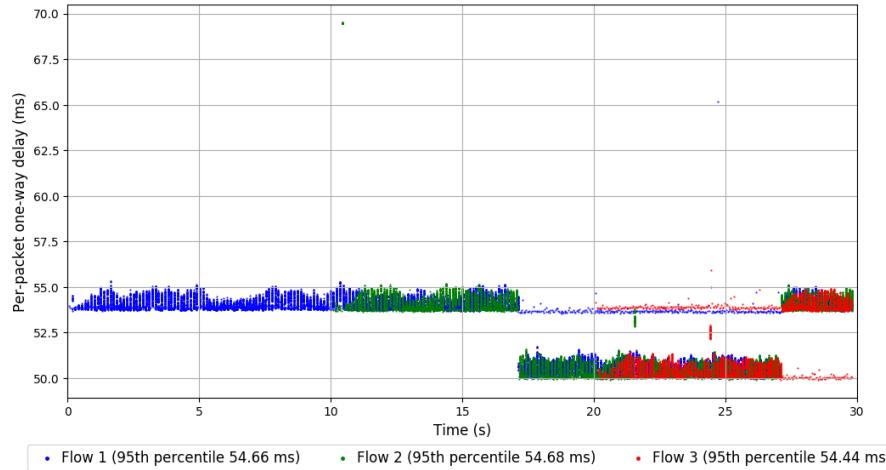
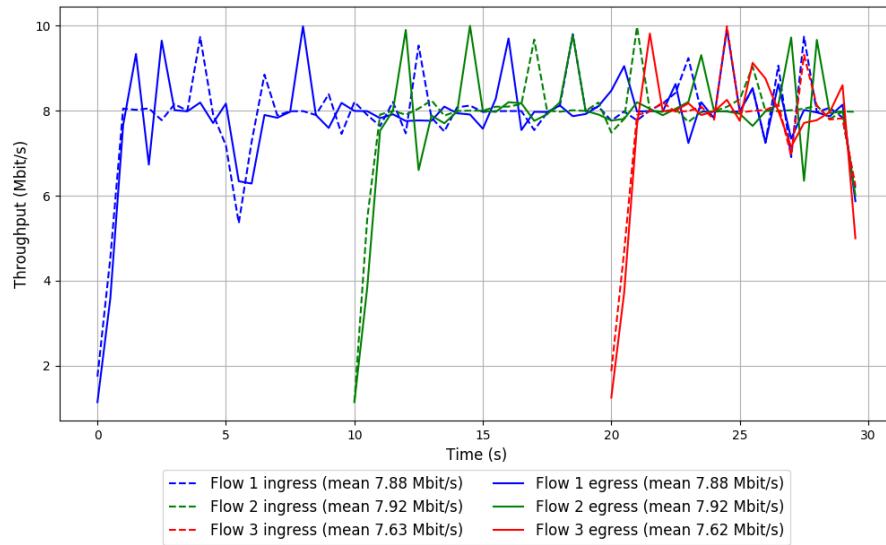
Run 2: Statistics of Sprout

Start at: 2018-02-14 05:54:33

End at: 2018-02-14 05:55:03

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 54.647 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 54.662 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 54.683 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 54.441 ms
Loss rate: 1.48%
```

Run 2: Report of Sprout — Data Link



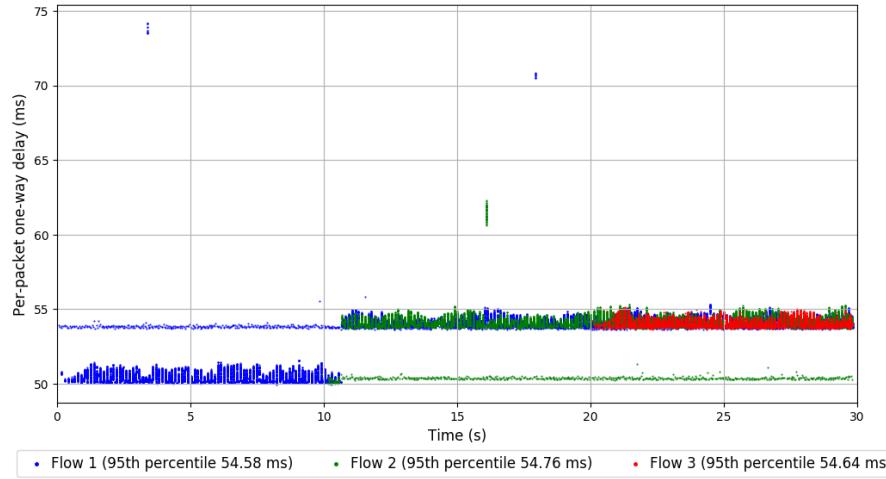
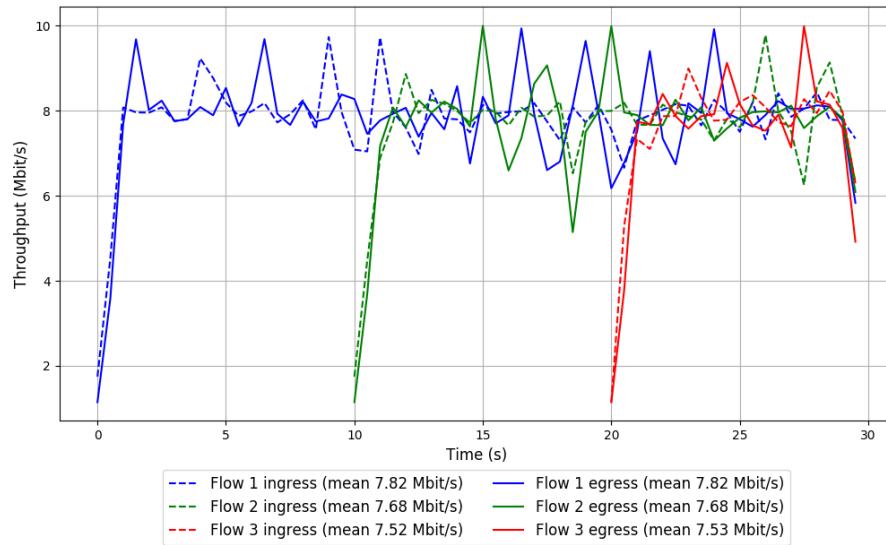
Run 3: Statistics of Sprout

Start at: 2018-02-14 06:12:00

End at: 2018-02-14 06:12:30

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.38 Mbit/s
95th percentile per-packet one-way delay: 54.664 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 54.581 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 54.761 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 54.639 ms
Loss rate: 1.41%
```

Run 3: Report of Sprout — Data Link



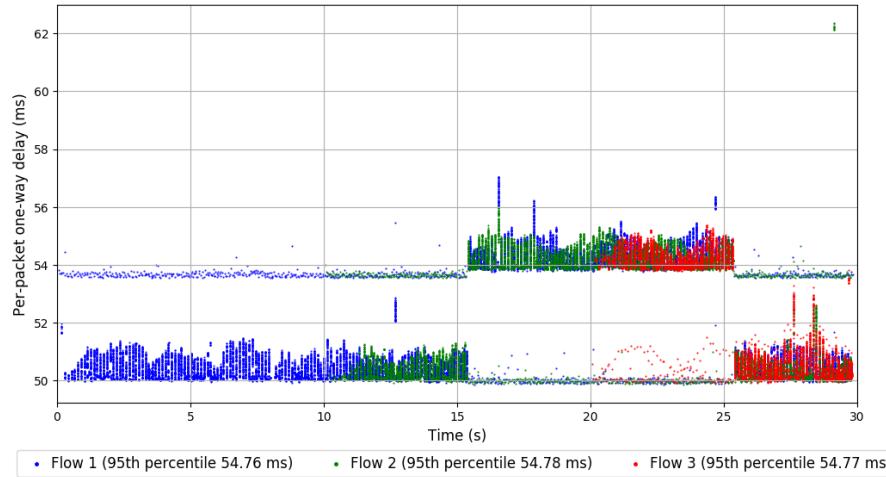
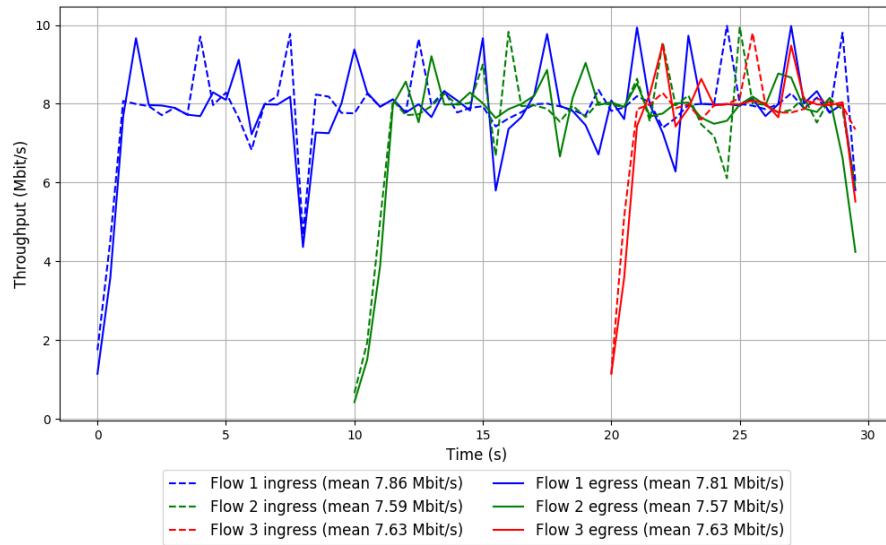
Run 4: Statistics of Sprout

Start at: 2018-02-14 06:29:25

End at: 2018-02-14 06:29:55

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.32 Mbit/s
95th percentile per-packet one-way delay: 54.768 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 54.758 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 54.778 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 54.774 ms
Loss rate: 1.29%
```

Run 4: Report of Sprout — Data Link



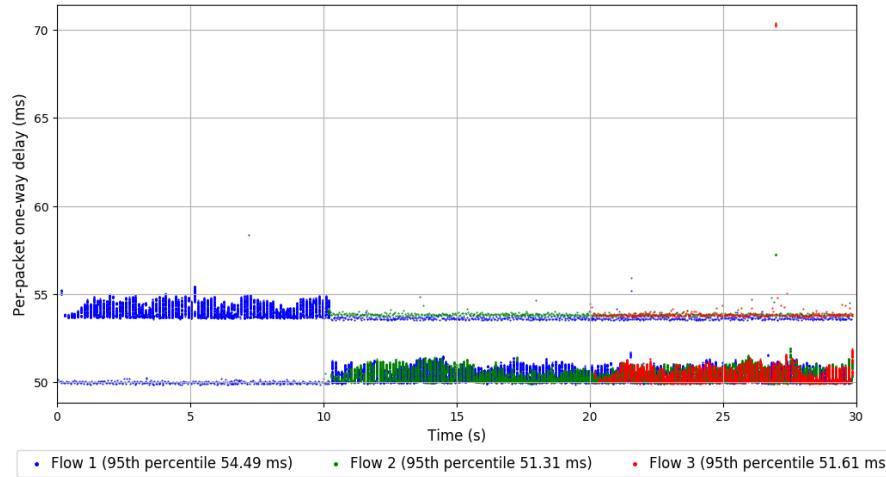
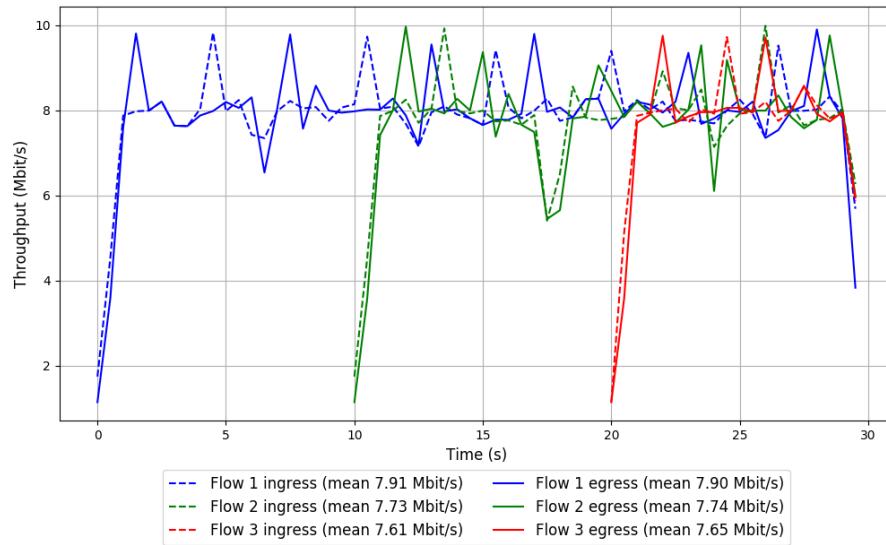
Run 5: Statistics of Sprout

Start at: 2018-02-14 06:46:50

End at: 2018-02-14 06:47:20

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.54 Mbit/s
95th percentile per-packet one-way delay: 54.293 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 54.493 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 51.308 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 51.608 ms
Loss rate: 0.10%
```

Run 5: Report of Sprout — Data Link



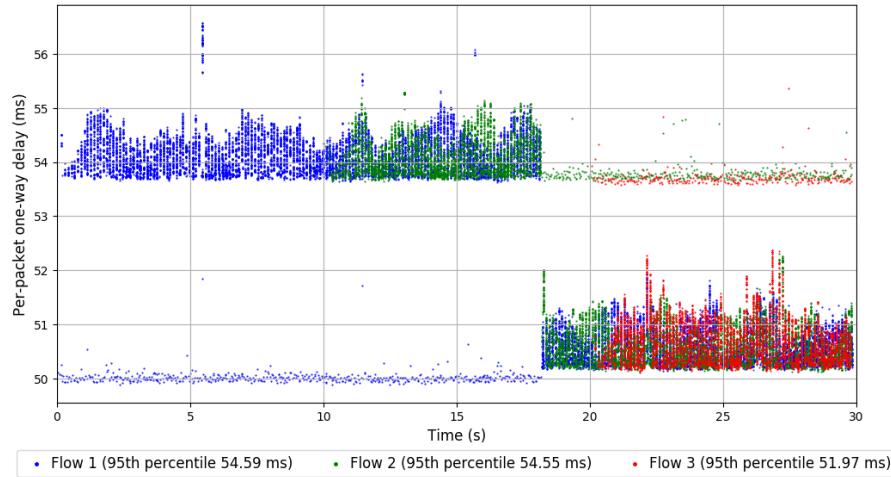
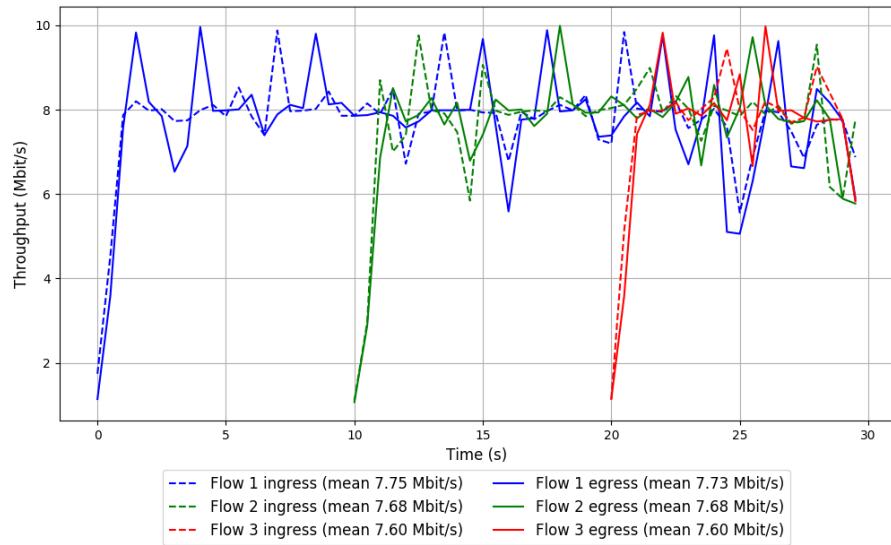
Run 6: Statistics of Sprout

Start at: 2018-02-14 07:04:22

End at: 2018-02-14 07:04:52

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 54.535 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 54.588 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 54.547 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 51.965 ms
Loss rate: 1.30%
```

Run 6: Report of Sprout — Data Link



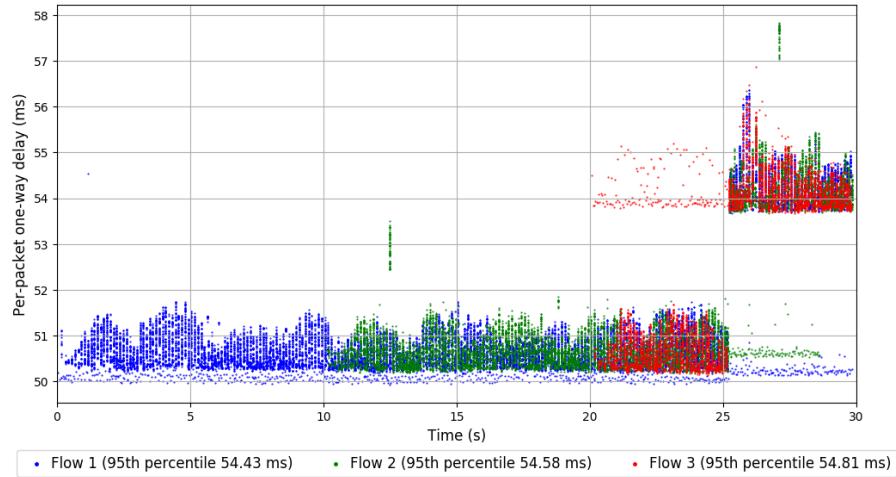
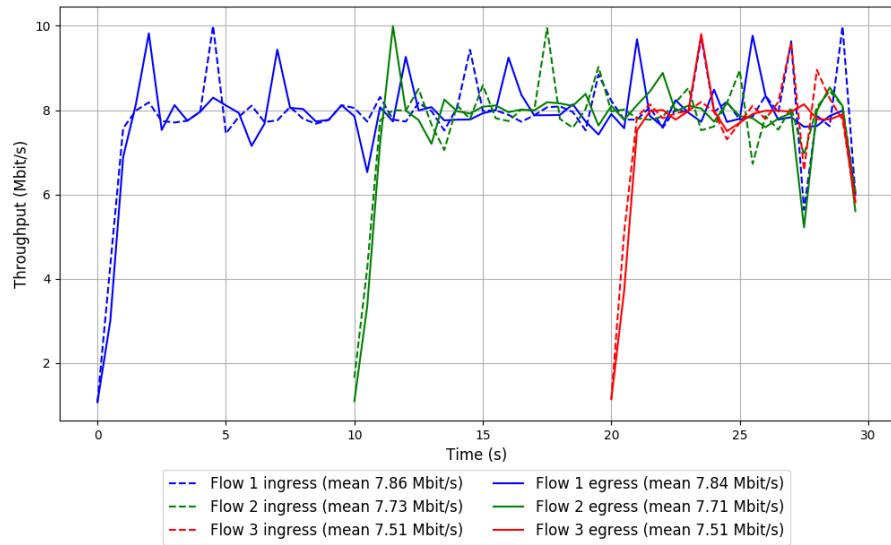
Run 7: Statistics of Sprout

Start at: 2018-02-14 07:21:55

End at: 2018-02-14 07:22:25

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.42 Mbit/s
95th percentile per-packet one-way delay: 54.563 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 54.431 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 54.575 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 54.807 ms
Loss rate: 1.22%
```

Run 7: Report of Sprout — Data Link



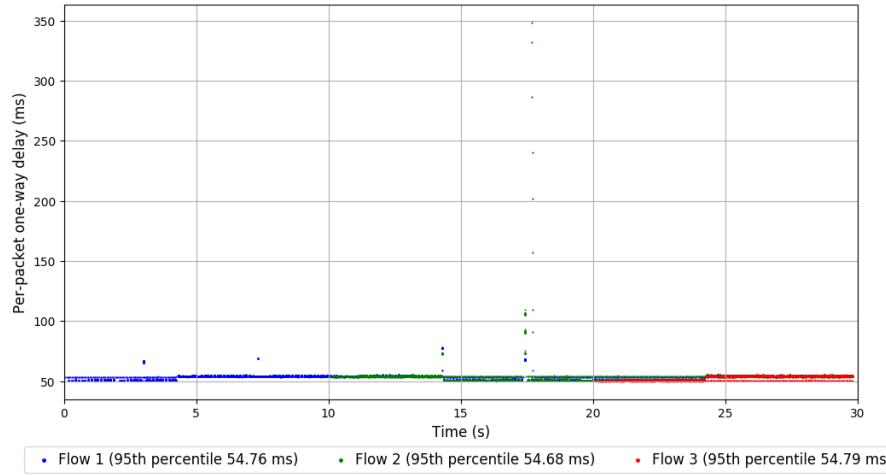
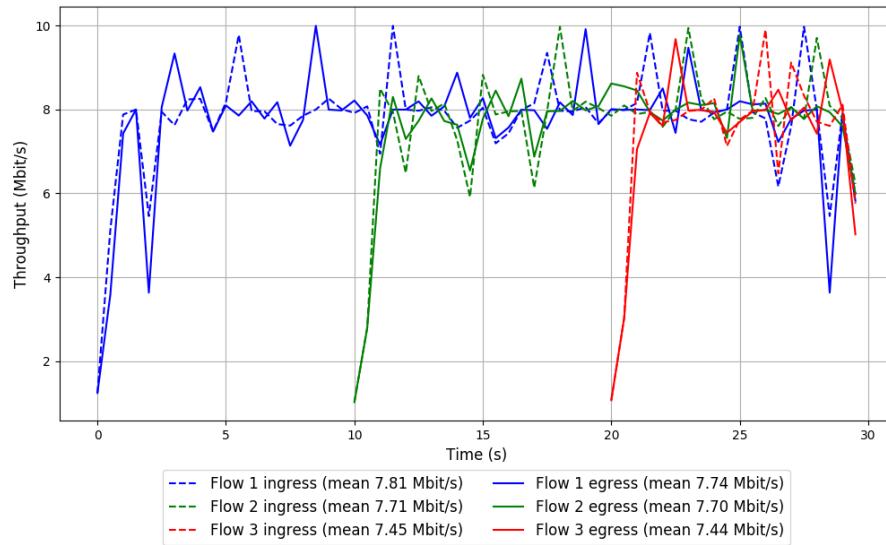
Run 8: Statistics of Sprout

Start at: 2018-02-14 07:38:56

End at: 2018-02-14 07:39:26

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 54.737 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 54.760 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 54.679 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 54.787 ms
Loss rate: 0.85%
```

Run 8: Report of Sprout — Data Link



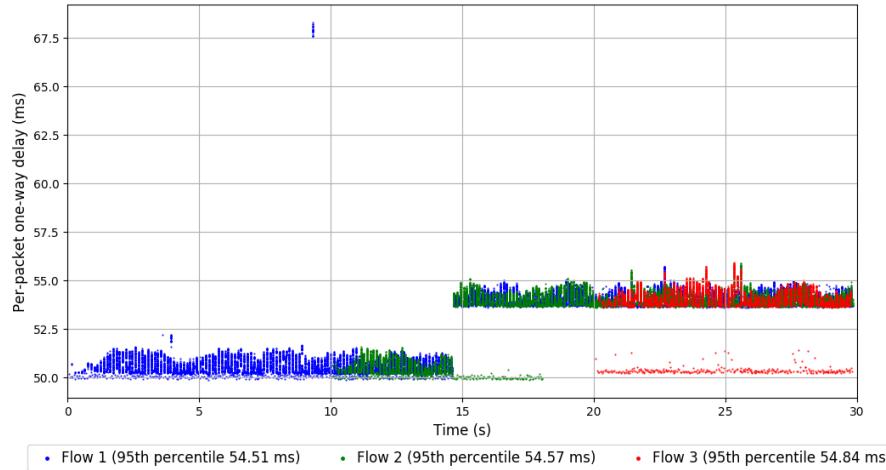
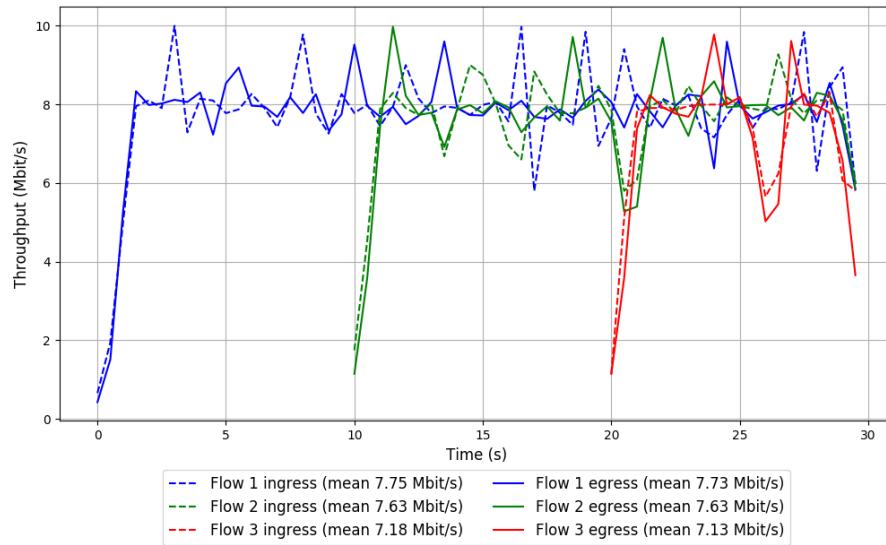
Run 9: Statistics of Sprout

Start at: 2018-02-14 07:56:26

End at: 2018-02-14 07:56:56

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 54.594 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 54.511 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 54.567 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 54.842 ms
Loss rate: 1.52%
```

Run 9: Report of Sprout — Data Link



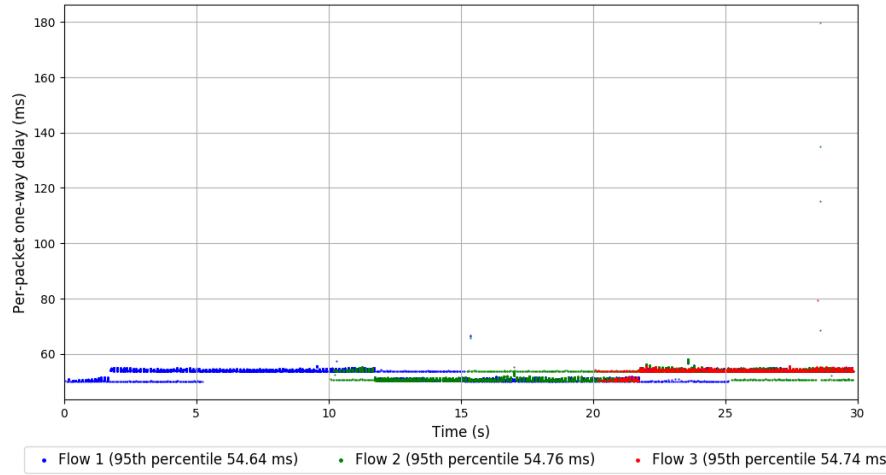
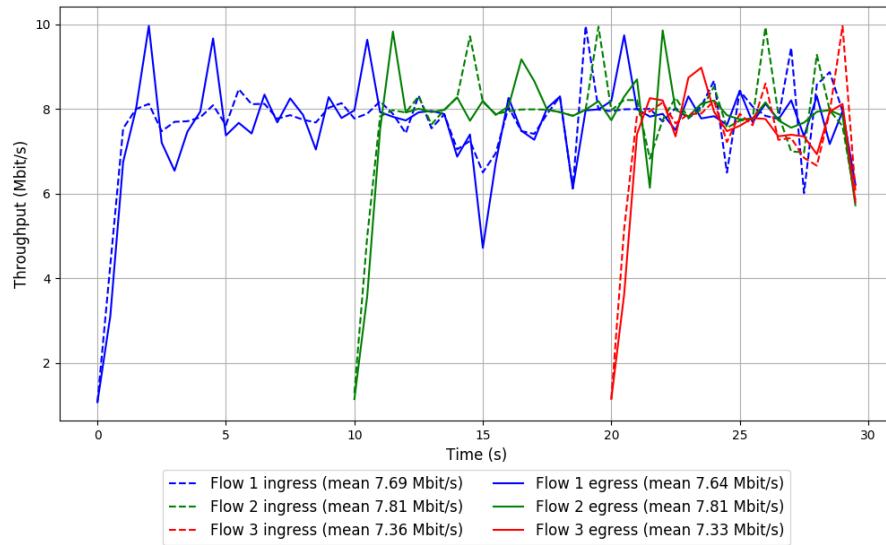
Run 10: Statistics of Sprout

Start at: 2018-02-14 08:13:49

End at: 2018-02-14 08:14:19

```
# Below is generated by plot.py at 2018-02-14 12:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 54.694 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 54.639 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 54.761 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 54.736 ms
Loss rate: 1.45%
```

Run 10: Report of Sprout — Data Link



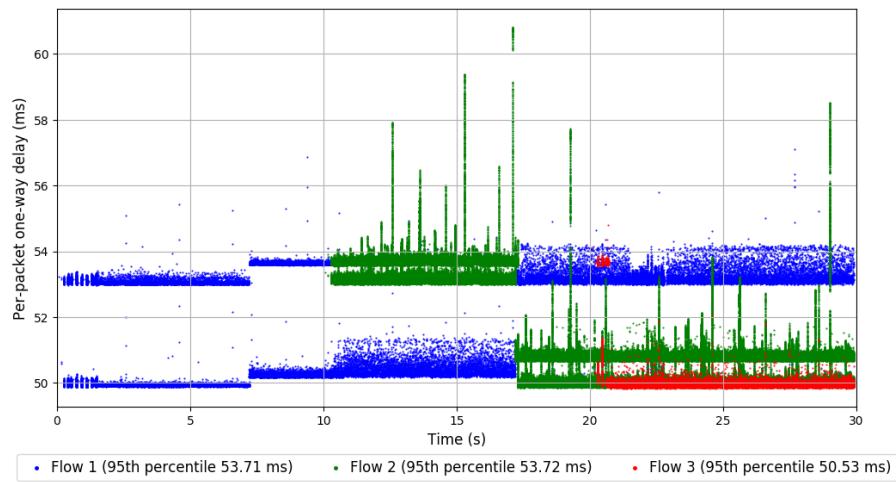
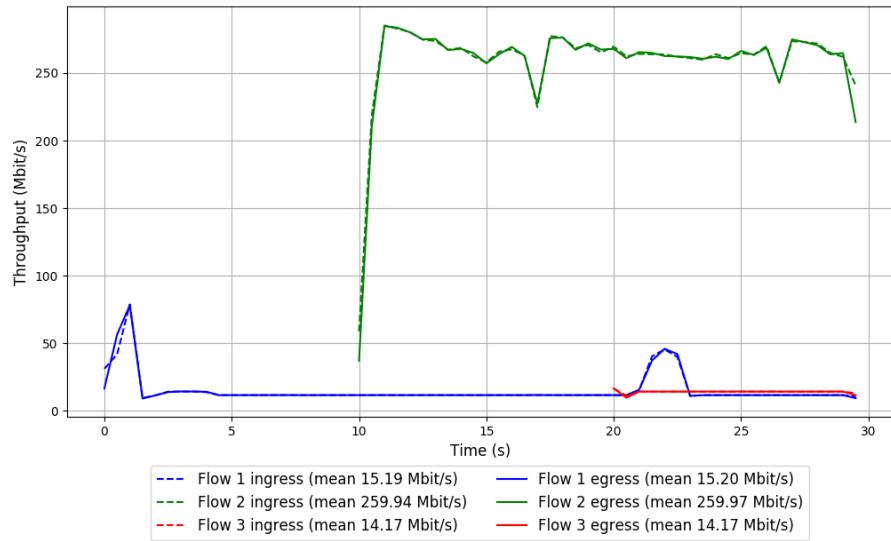
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-14 05:46:13

End at: 2018-02-14 05:46:43

```
# Below is generated by plot.py at 2018-02-14 12:12:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 192.62 Mbit/s
95th percentile per-packet one-way delay: 53.716 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 259.97 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 50.527 ms
Loss rate: 1.02%
```

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



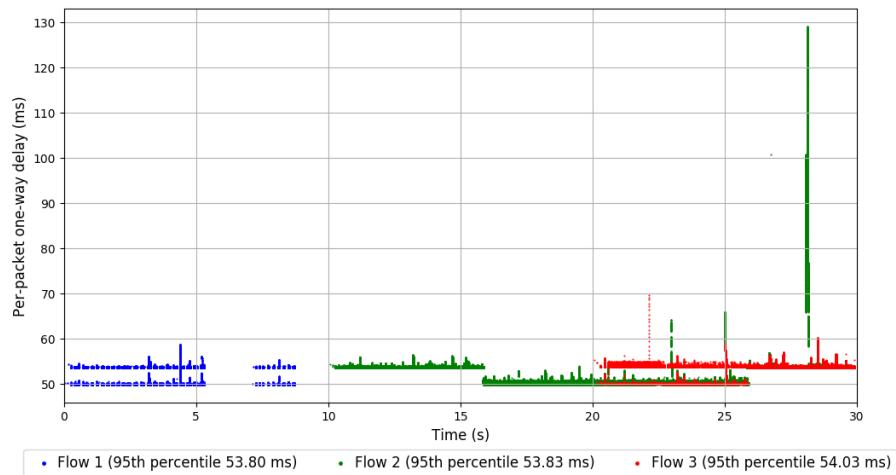
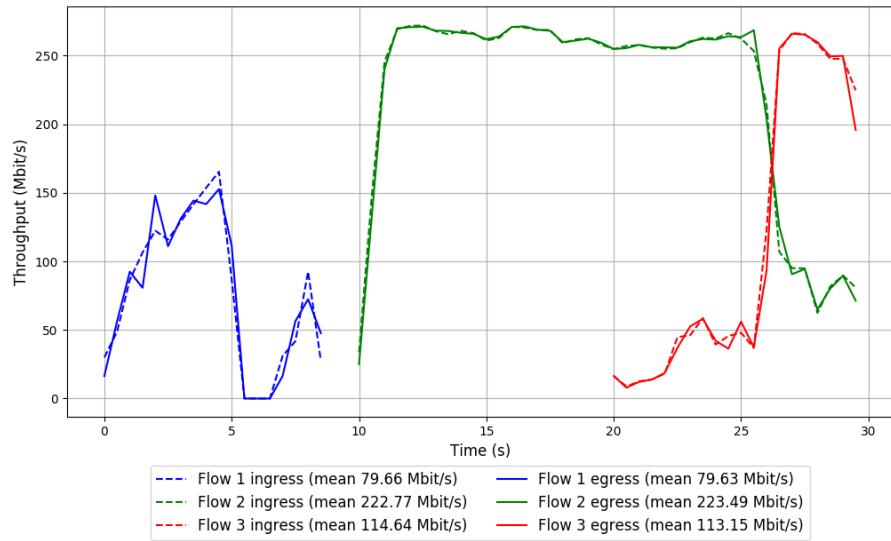
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-14 06:03:34

End at: 2018-02-14 06:04:04

```
# Below is generated by plot.py at 2018-02-14 12:12:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.86 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 53.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 223.49 Mbit/s
95th percentile per-packet one-way delay: 53.827 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 113.15 Mbit/s
95th percentile per-packet one-way delay: 54.034 ms
Loss rate: 2.33%
```

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



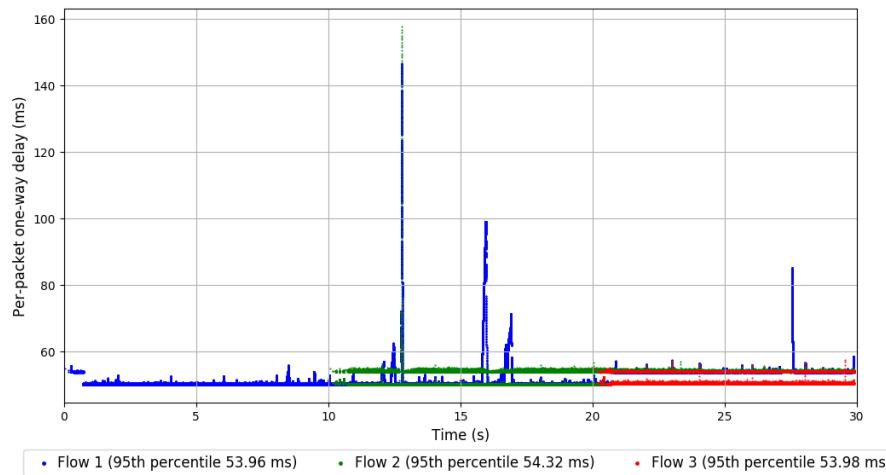
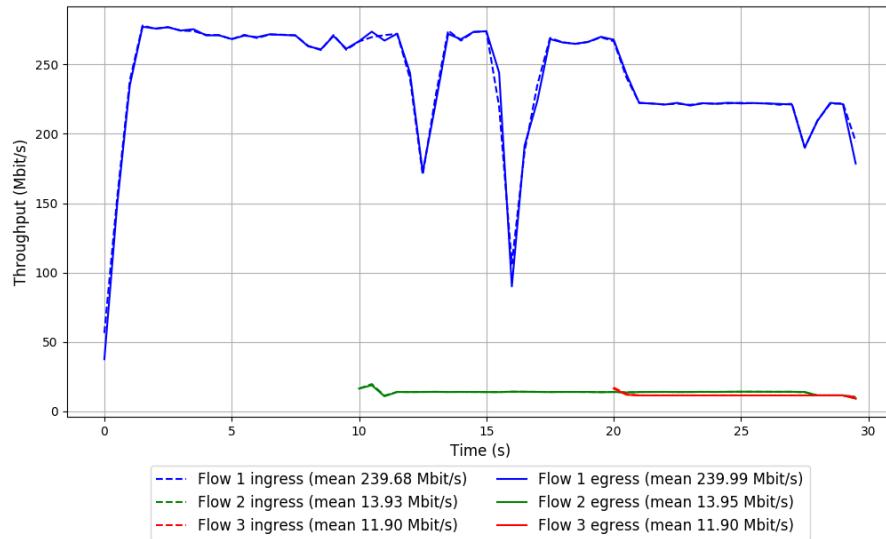
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-14 06:21:00

End at: 2018-02-14 06:21:30

```
# Below is generated by plot.py at 2018-02-14 12:14:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.17 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 239.99 Mbit/s
95th percentile per-packet one-way delay: 53.958 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 13.95 Mbit/s
95th percentile per-packet one-way delay: 54.317 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 53.983 ms
Loss rate: 1.02%
```

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



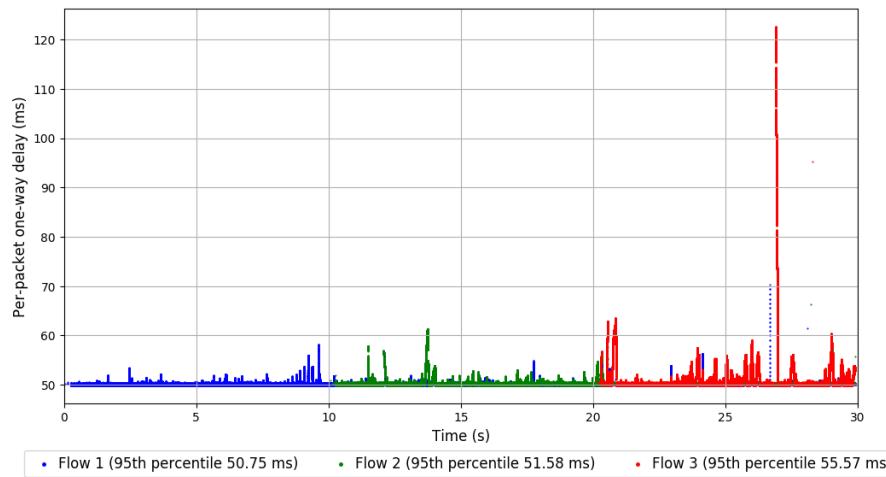
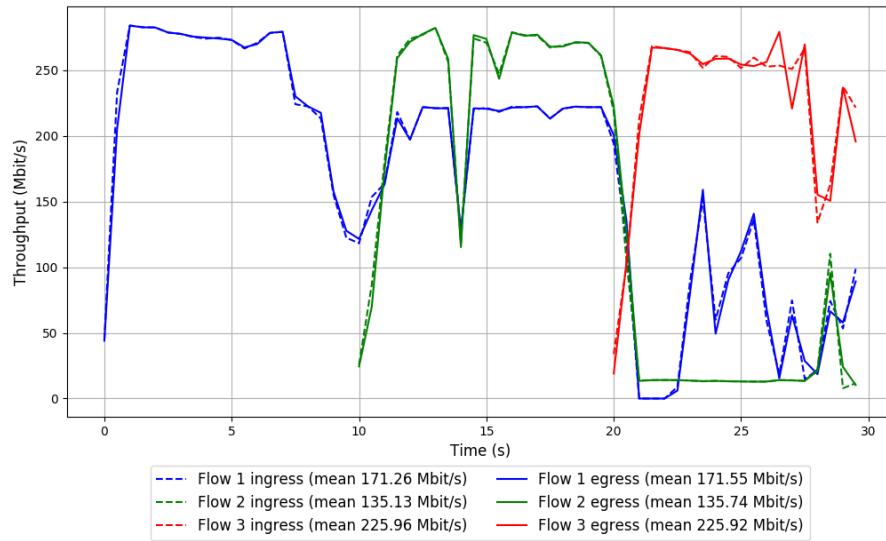
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-14 06:38:20

End at: 2018-02-14 06:38:50

```
# Below is generated by plot.py at 2018-02-14 12:17:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.95 Mbit/s
95th percentile per-packet one-way delay: 52.714 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 171.55 Mbit/s
95th percentile per-packet one-way delay: 50.749 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 135.74 Mbit/s
95th percentile per-packet one-way delay: 51.575 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 225.92 Mbit/s
95th percentile per-packet one-way delay: 55.567 ms
Loss rate: 1.04%
```

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



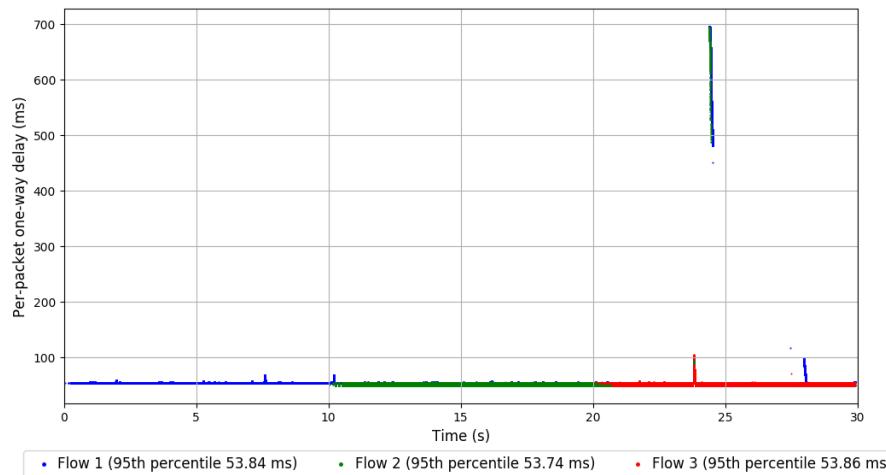
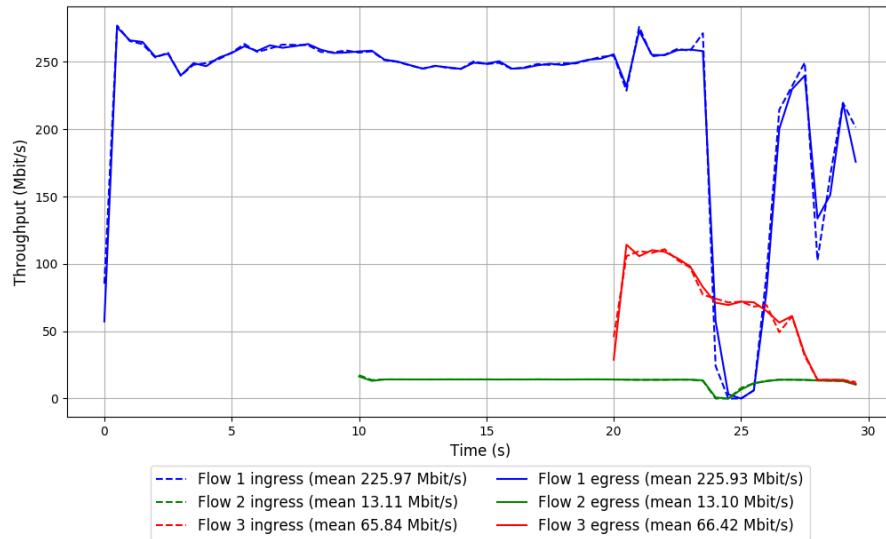
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-14 06:55:50

End at: 2018-02-14 06:56:20

```
# Below is generated by plot.py at 2018-02-14 12:17:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.50 Mbit/s
95th percentile per-packet one-way delay: 53.837 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 225.93 Mbit/s
95th percentile per-packet one-way delay: 53.838 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 53.738 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 66.42 Mbit/s
95th percentile per-packet one-way delay: 53.859 ms
Loss rate: 0.21%
```

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



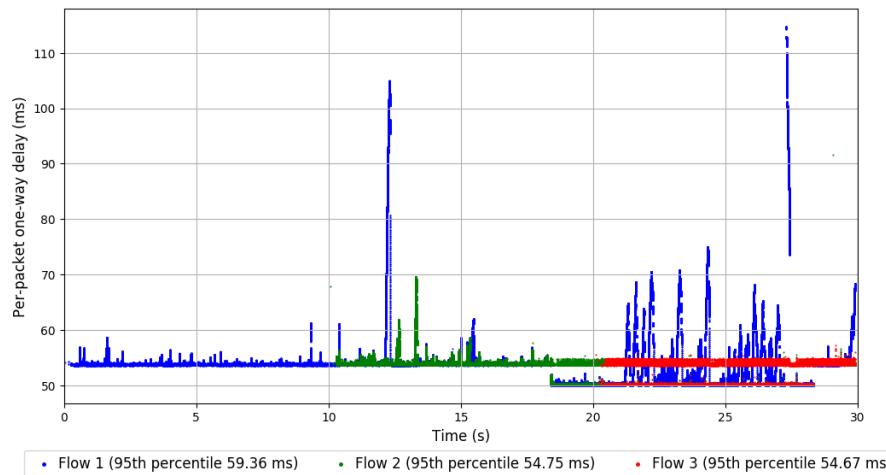
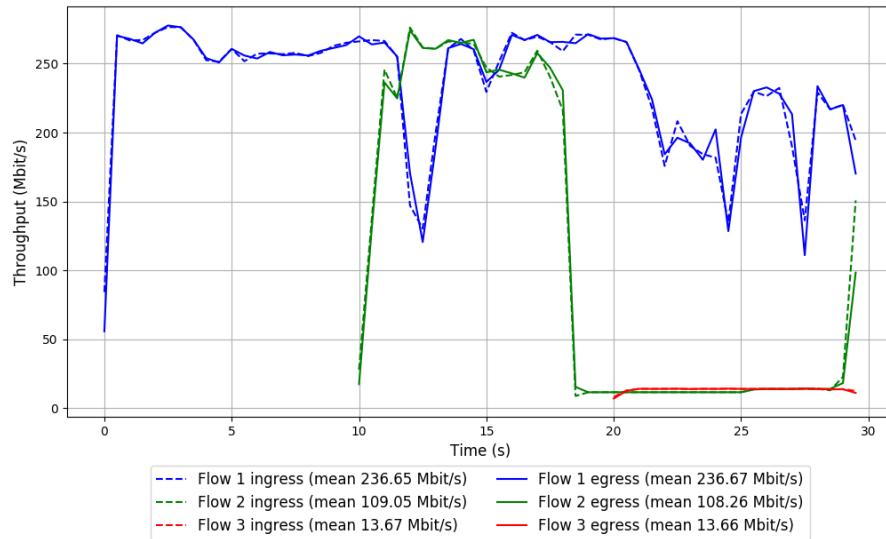
Run 6: Statistics of TaoVA-100x

Start at: 2018-02-14 07:13:22

End at: 2018-02-14 07:13:52

```
# Below is generated by plot.py at 2018-02-14 12:17:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.05 Mbit/s
95th percentile per-packet one-way delay: 57.658 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 236.67 Mbit/s
95th percentile per-packet one-way delay: 59.358 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 108.26 Mbit/s
95th percentile per-packet one-way delay: 54.751 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 13.66 Mbit/s
95th percentile per-packet one-way delay: 54.667 ms
Loss rate: 1.08%
```

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



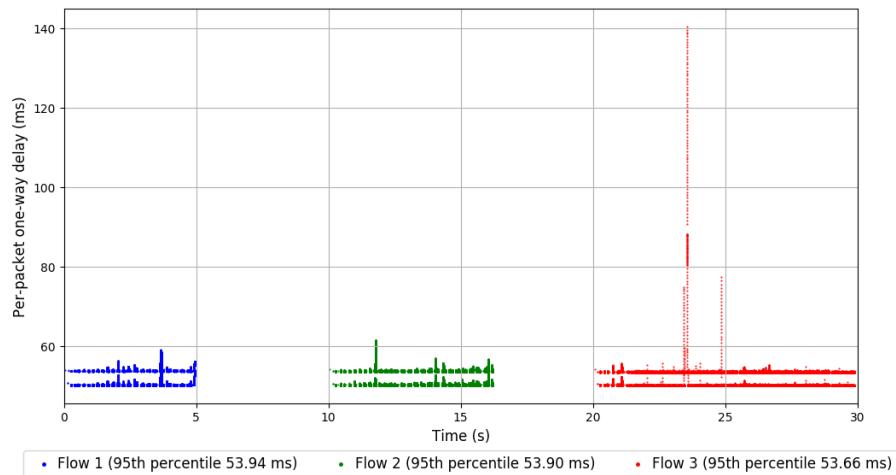
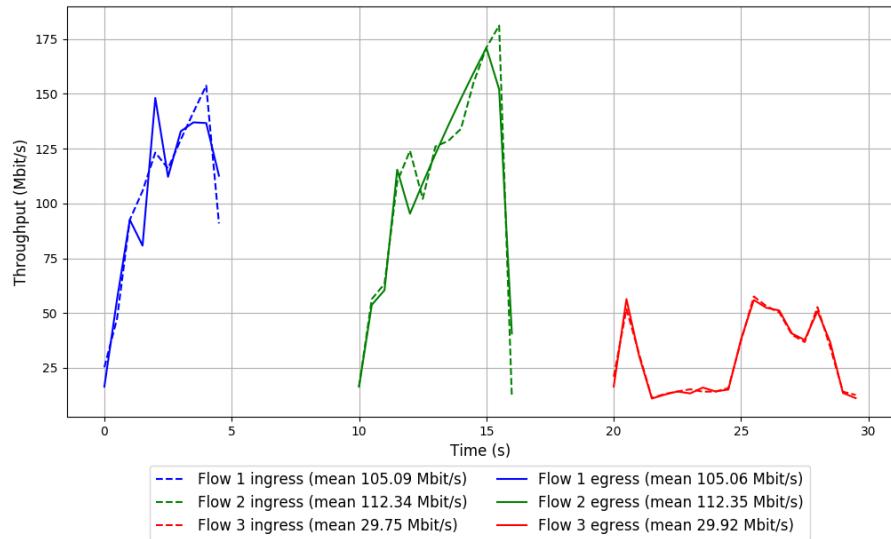
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-14 07:30:50

End at: 2018-02-14 07:31:20

```
# Below is generated by plot.py at 2018-02-14 12:17:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 105.06 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 112.35 Mbit/s
95th percentile per-packet one-way delay: 53.898 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.92 Mbit/s
95th percentile per-packet one-way delay: 53.664 ms
Loss rate: 0.49%
```

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



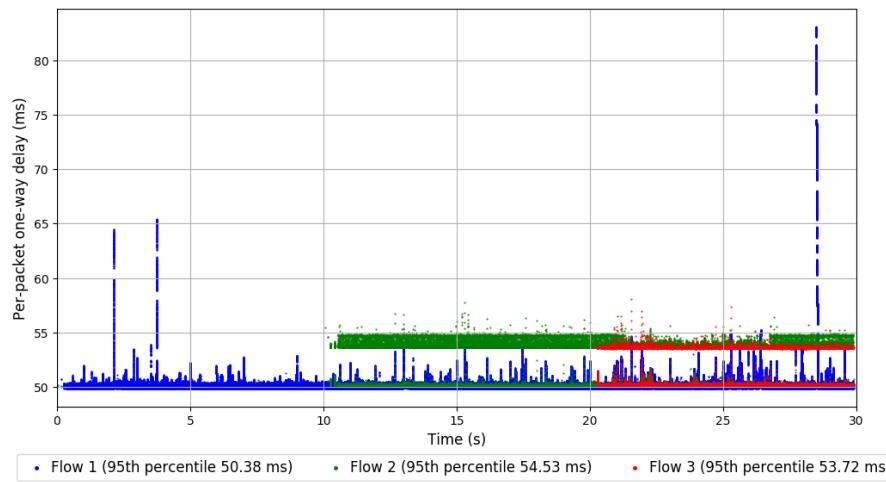
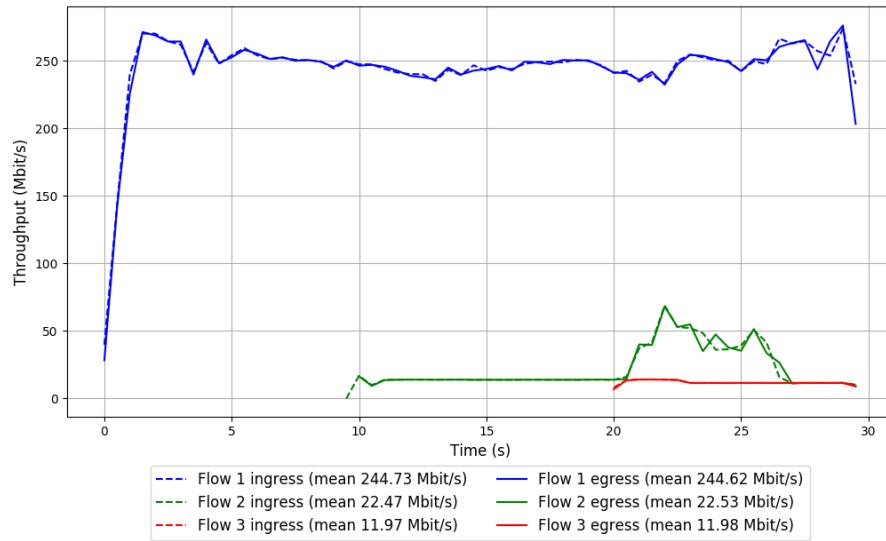
Run 8: Statistics of TaoVA-100x

Start at: 2018-02-14 07:47:55

End at: 2018-02-14 07:48:25

```
# Below is generated by plot.py at 2018-02-14 12:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 263.53 Mbit/s
95th percentile per-packet one-way delay: 51.430 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 244.62 Mbit/s
95th percentile per-packet one-way delay: 50.380 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 54.527 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 53.722 ms
Loss rate: 0.98%
```

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



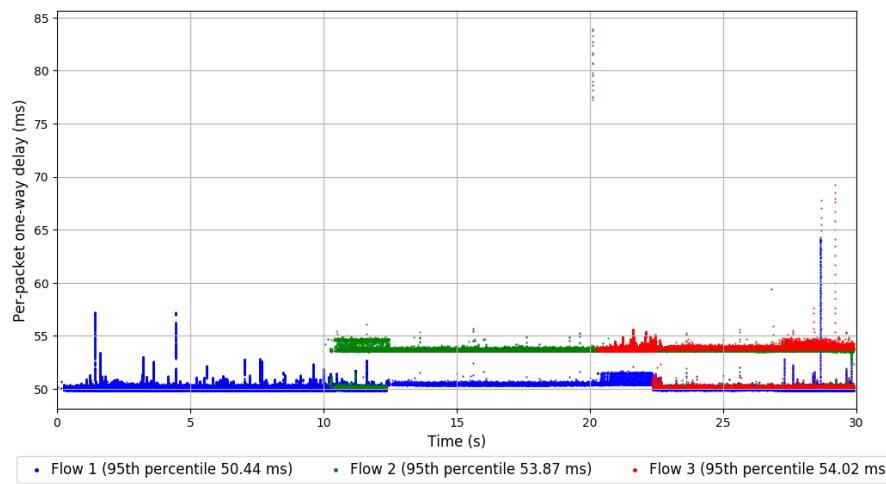
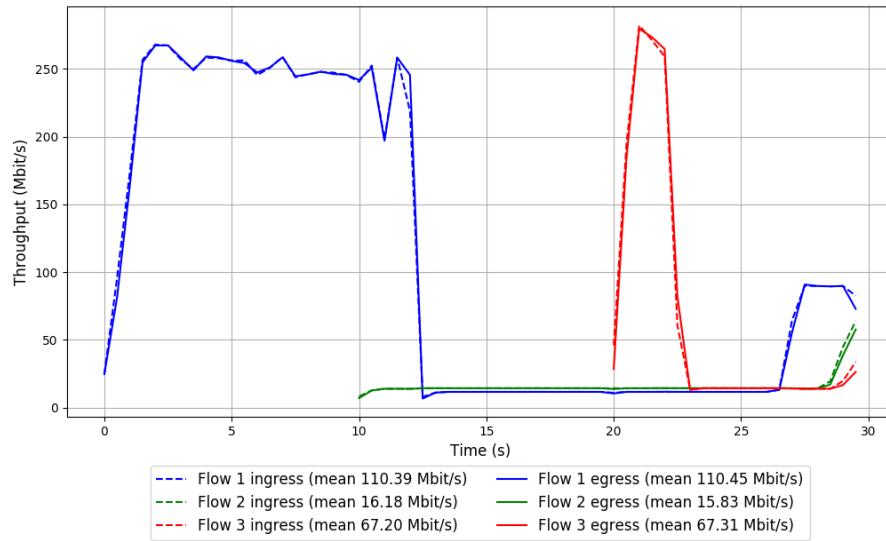
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-14 08:05:28

End at: 2018-02-14 08:05:58

```
# Below is generated by plot.py at 2018-02-14 12:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.13 Mbit/s
95th percentile per-packet one-way delay: 53.781 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 110.45 Mbit/s
95th percentile per-packet one-way delay: 50.440 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 53.870 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 54.015 ms
Loss rate: 0.88%
```

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



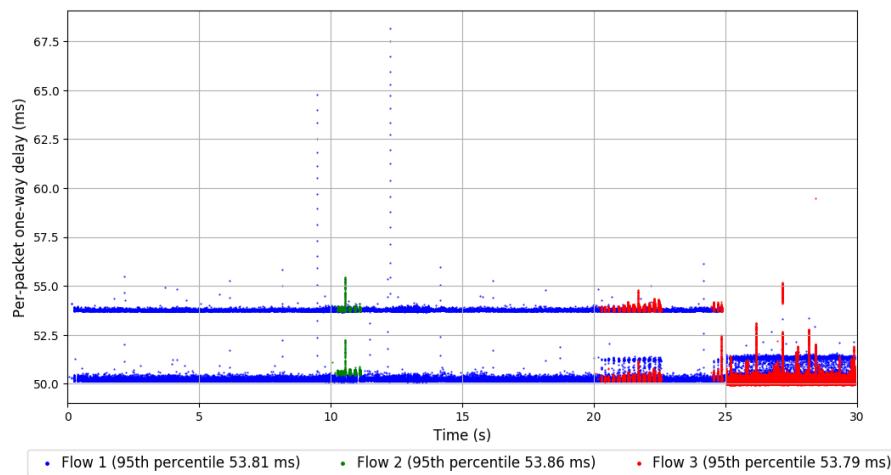
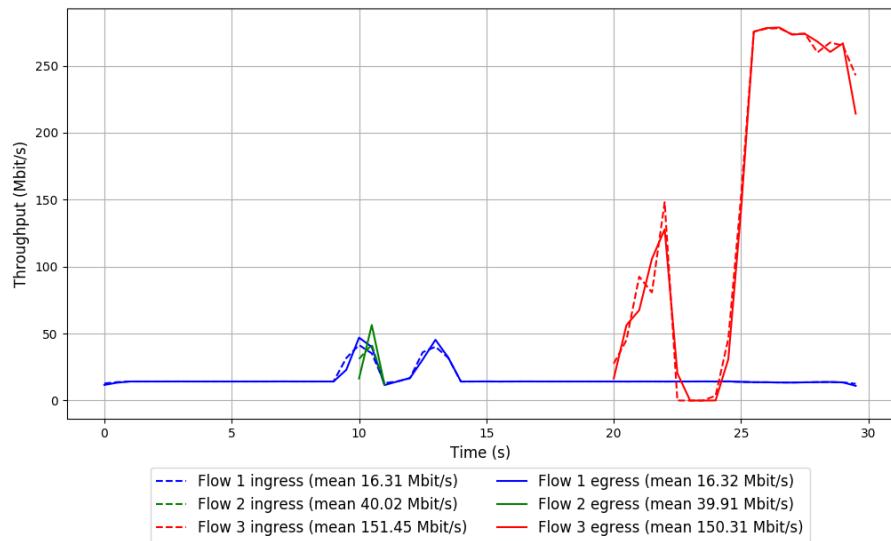
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-14 08:22:45

End at: 2018-02-14 08:23:15

```
# Below is generated by plot.py at 2018-02-14 12:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.25 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 16.32 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 150.31 Mbit/s
95th percentile per-packet one-way delay: 53.788 ms
Loss rate: 1.80%
```

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

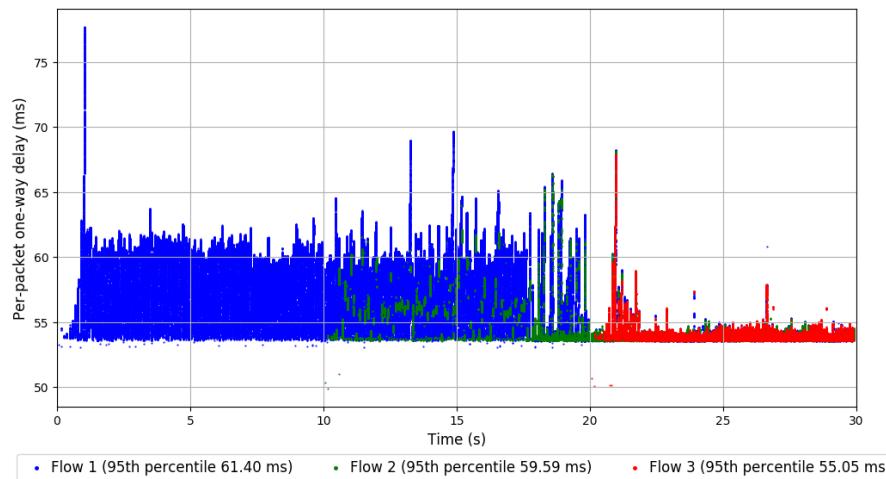
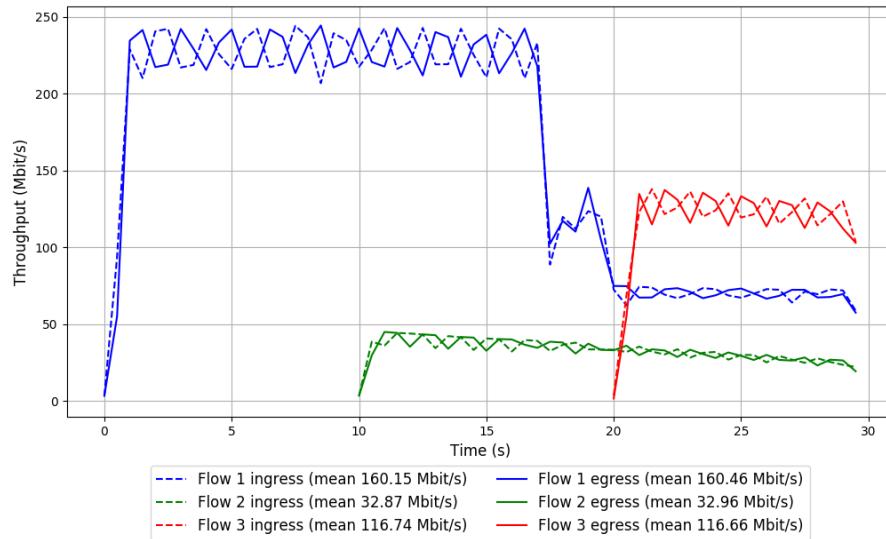


```
Run 1: Statistics of TCP Vegas

Start at: 2018-02-14 05:34:59
End at: 2018-02-14 05:35:29

# Below is generated by plot.py at 2018-02-14 12:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.47 Mbit/s
95th percentile per-packet one-way delay: 61.156 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 160.46 Mbit/s
95th percentile per-packet one-way delay: 61.402 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 32.96 Mbit/s
95th percentile per-packet one-way delay: 59.594 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 116.66 Mbit/s
95th percentile per-packet one-way delay: 55.049 ms
Loss rate: 1.12%
```

Run 1: Report of TCP Vegas — Data Link



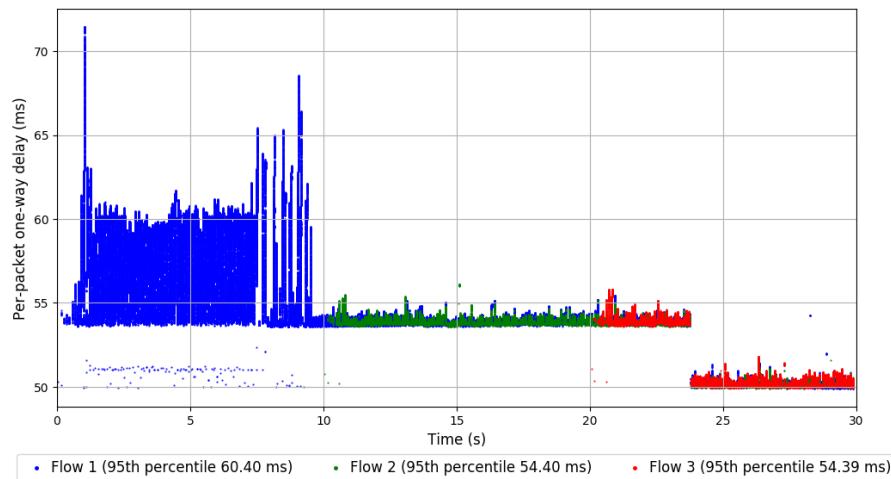
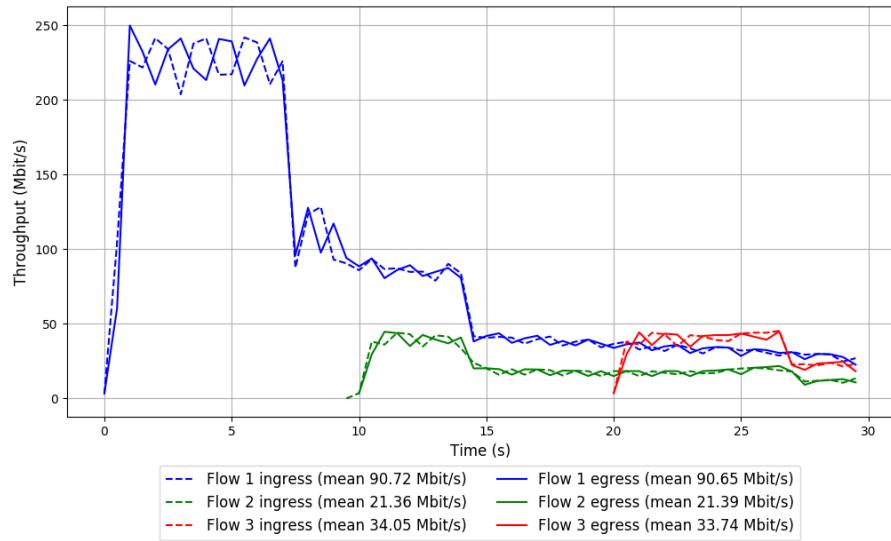
Run 2: Statistics of TCP Vegas

Start at: 2018-02-14 05:52:26

End at: 2018-02-14 05:52:57

```
# Below is generated by plot.py at 2018-02-14 12:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.96 Mbit/s
95th percentile per-packet one-way delay: 60.229 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 60.399 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 54.395 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 33.74 Mbit/s
95th percentile per-packet one-way delay: 54.390 ms
Loss rate: 1.94%
```

Run 2: Report of TCP Vegas — Data Link



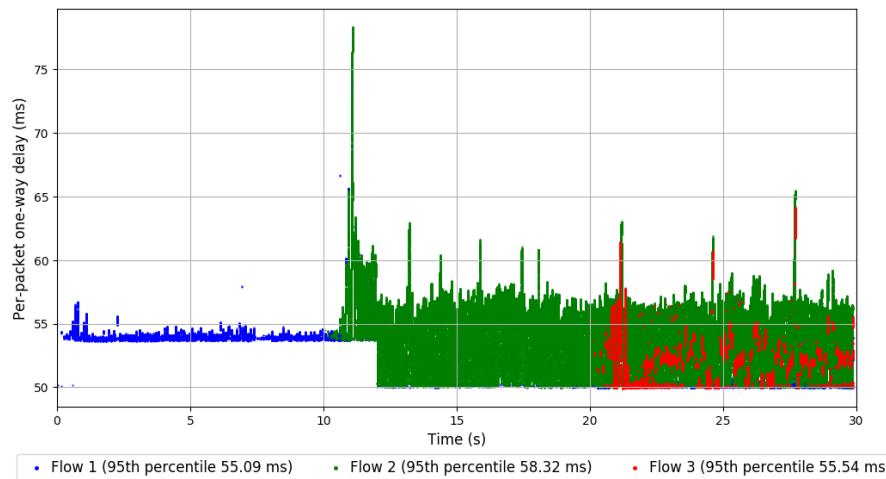
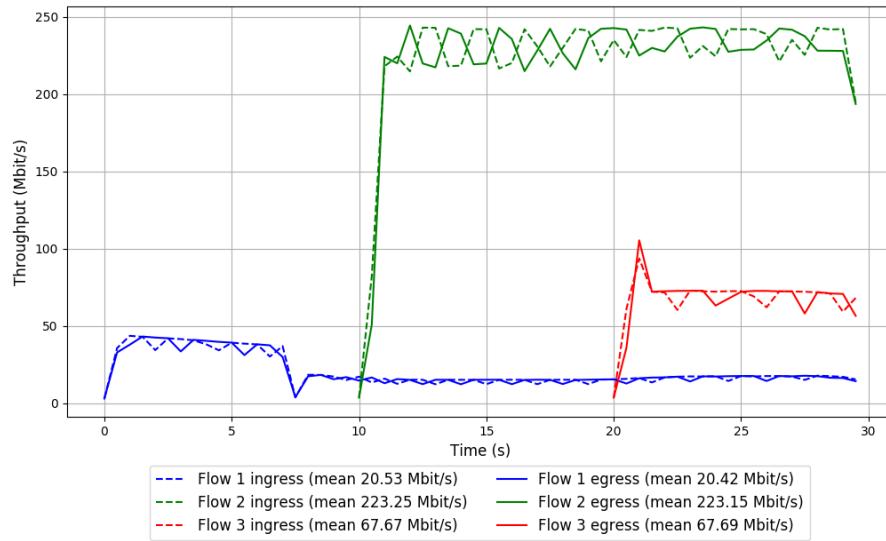
Run 3: Statistics of TCP Vegas

Start at: 2018-02-14 06:09:48

End at: 2018-02-14 06:10:18

```
# Below is generated by plot.py at 2018-02-14 12:17:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.69 Mbit/s
95th percentile per-packet one-way delay: 57.990 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 55.085 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 223.15 Mbit/s
95th percentile per-packet one-way delay: 58.324 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 55.539 ms
Loss rate: 1.05%
```

Run 3: Report of TCP Vegas — Data Link



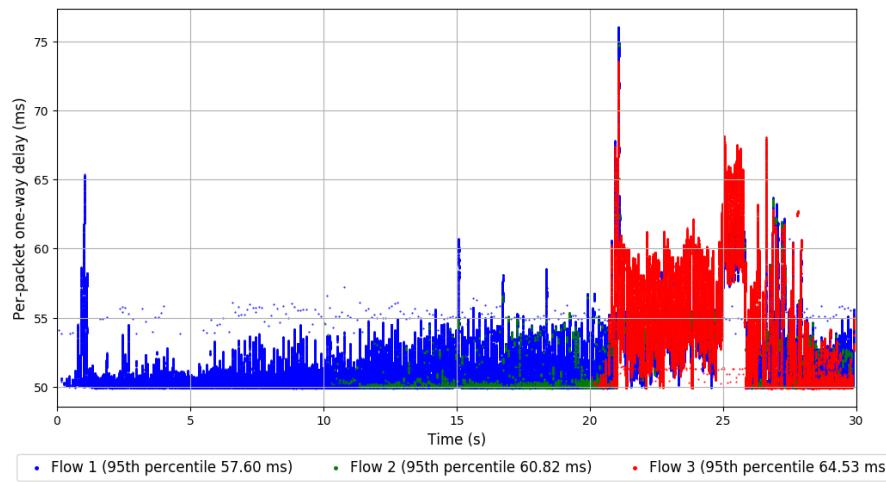
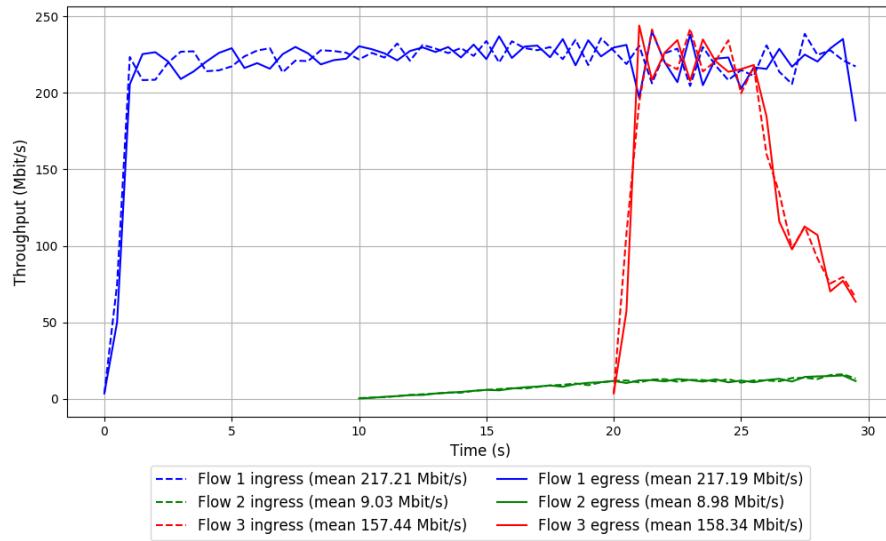
Run 4: Statistics of TCP Vegas

Start at: 2018-02-14 06:27:12

End at: 2018-02-14 06:27:42

```
# Below is generated by plot.py at 2018-02-14 12:19:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.31 Mbit/s
95th percentile per-packet one-way delay: 60.200 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 217.19 Mbit/s
95th percentile per-packet one-way delay: 57.602 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 60.824 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 158.34 Mbit/s
95th percentile per-packet one-way delay: 64.535 ms
Loss rate: 0.46%
```

Run 4: Report of TCP Vegas — Data Link



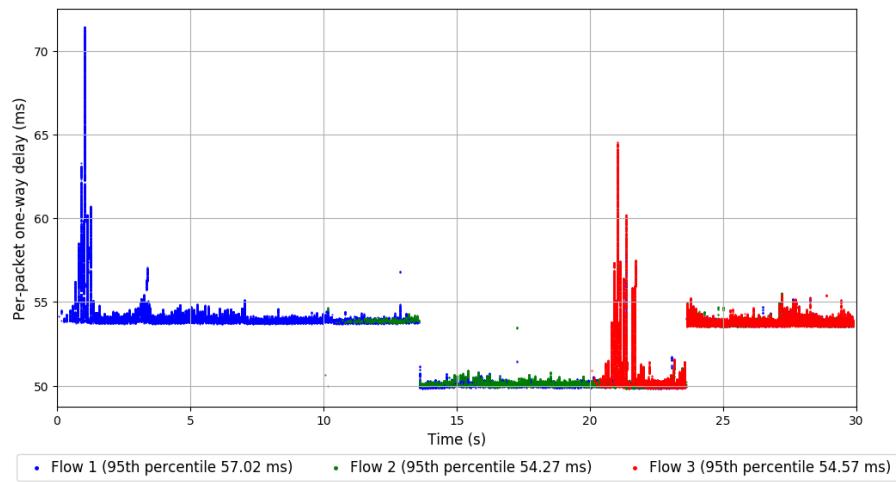
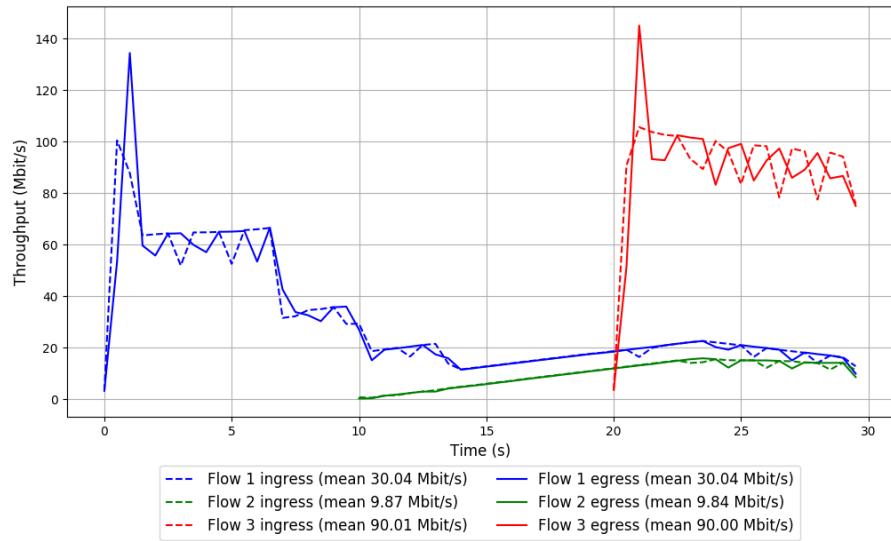
Run 5: Statistics of TCP Vegas

Start at: 2018-02-14 06:44:47

End at: 2018-02-14 06:45:17

```
# Below is generated by plot.py at 2018-02-14 12:19:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 55.120 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 57.019 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 54.268 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 54.570 ms
Loss rate: 1.06%
```

Run 5: Report of TCP Vegas — Data Link



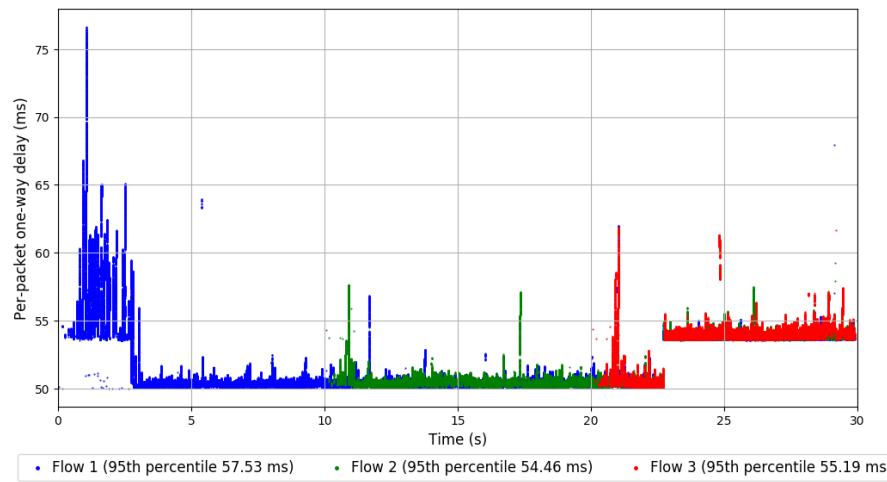
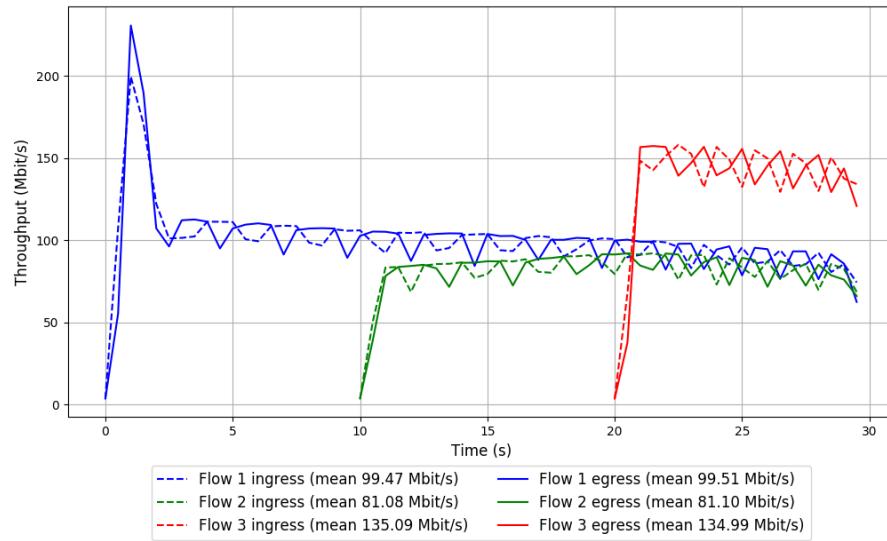
Run 6: Statistics of TCP Vegas

Start at: 2018-02-14 07:02:08

End at: 2018-02-14 07:02:38

```
# Below is generated by plot.py at 2018-02-14 12:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.75 Mbit/s
95th percentile per-packet one-way delay: 55.491 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 99.51 Mbit/s
95th percentile per-packet one-way delay: 57.527 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 81.10 Mbit/s
95th percentile per-packet one-way delay: 54.463 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 134.99 Mbit/s
95th percentile per-packet one-way delay: 55.187 ms
Loss rate: 1.13%
```

Run 6: Report of TCP Vegas — Data Link



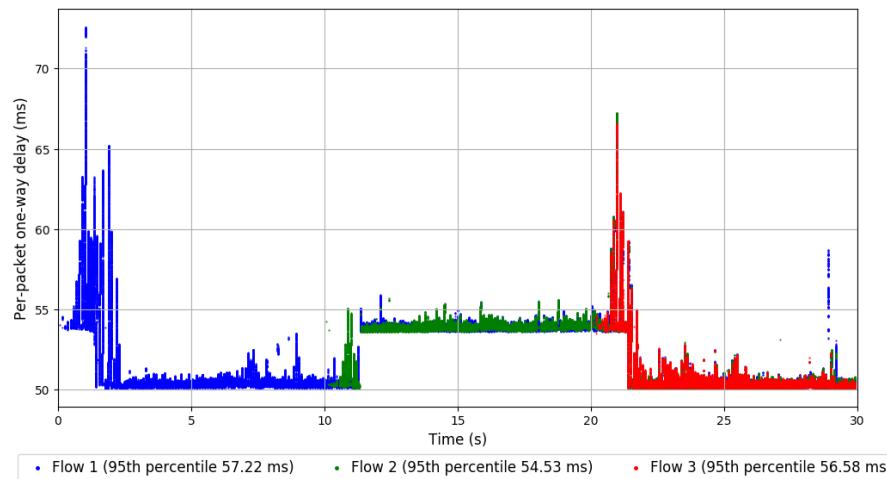
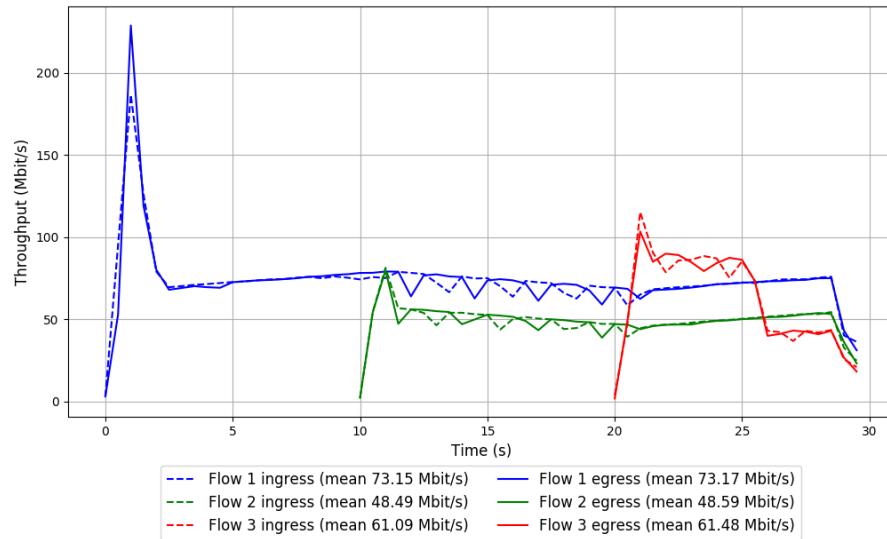
Run 7: Statistics of TCP Vegas

Start at: 2018-02-14 07:19:49

End at: 2018-02-14 07:20:19

```
# Below is generated by plot.py at 2018-02-14 12:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.67 Mbit/s
95th percentile per-packet one-way delay: 56.007 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 57.219 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 48.59 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 56.582 ms
Loss rate: 0.43%
```

Run 7: Report of TCP Vegas — Data Link



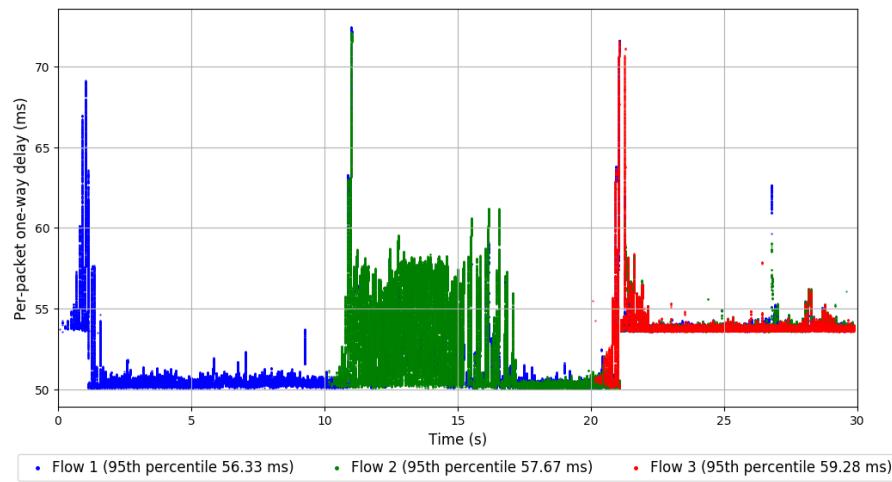
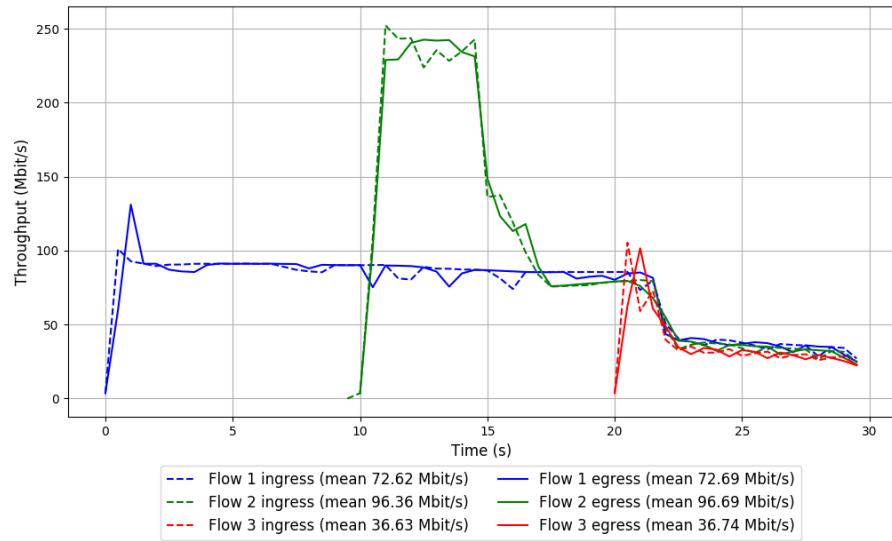
Run 8: Statistics of TCP Vegas

Start at: 2018-02-14 07:36:49

End at: 2018-02-14 07:37:19

```
# Below is generated by plot.py at 2018-02-14 12:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.02 Mbit/s
95th percentile per-packet one-way delay: 57.523 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 56.331 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 57.670 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 36.74 Mbit/s
95th percentile per-packet one-way delay: 59.280 ms
Loss rate: 0.79%
```

Run 8: Report of TCP Vegas — Data Link



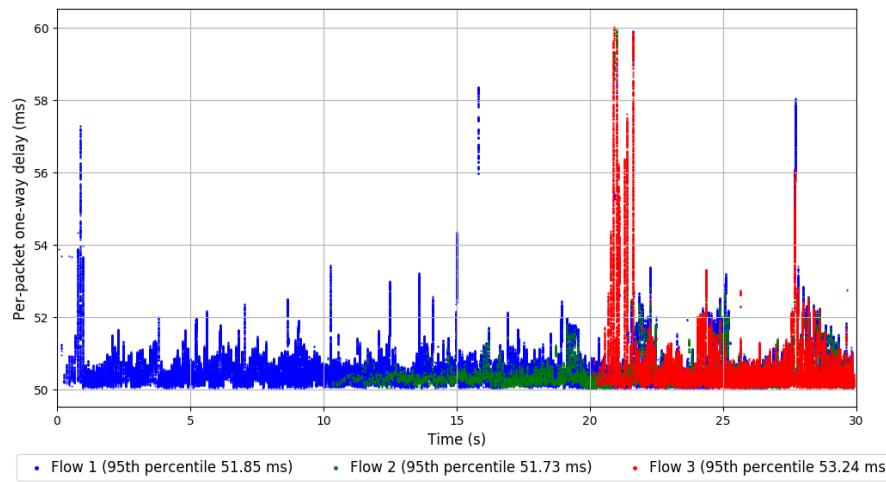
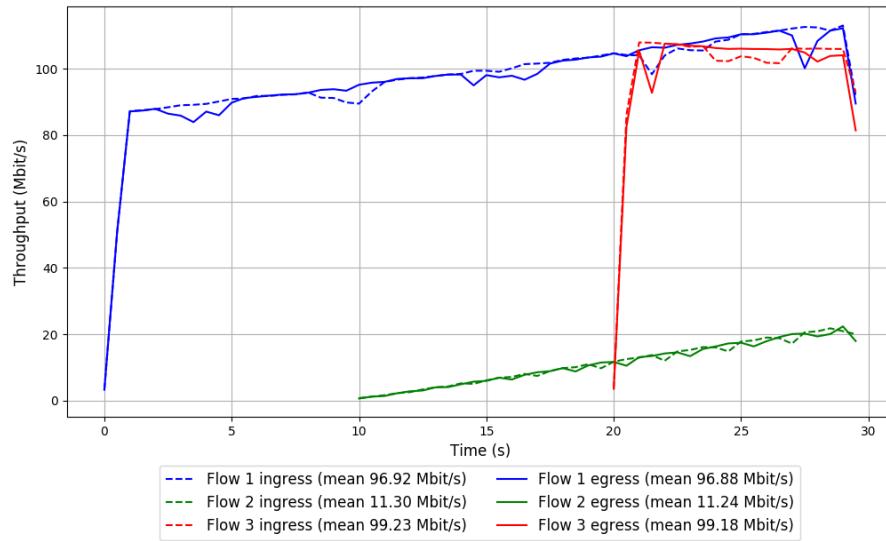
Run 9: Statistics of TCP Vegas

Start at: 2018-02-14 07:54:16

End at: 2018-02-14 07:54:46

```
# Below is generated by plot.py at 2018-02-14 12:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.04 Mbit/s
95th percentile per-packet one-way delay: 51.988 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 51.848 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 51.734 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 99.18 Mbit/s
95th percentile per-packet one-way delay: 53.243 ms
Loss rate: 1.07%
```

Run 9: Report of TCP Vegas — Data Link



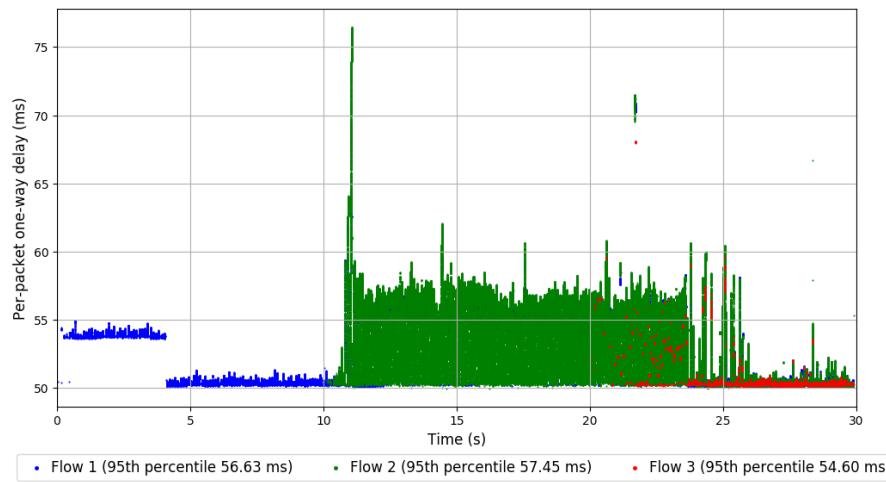
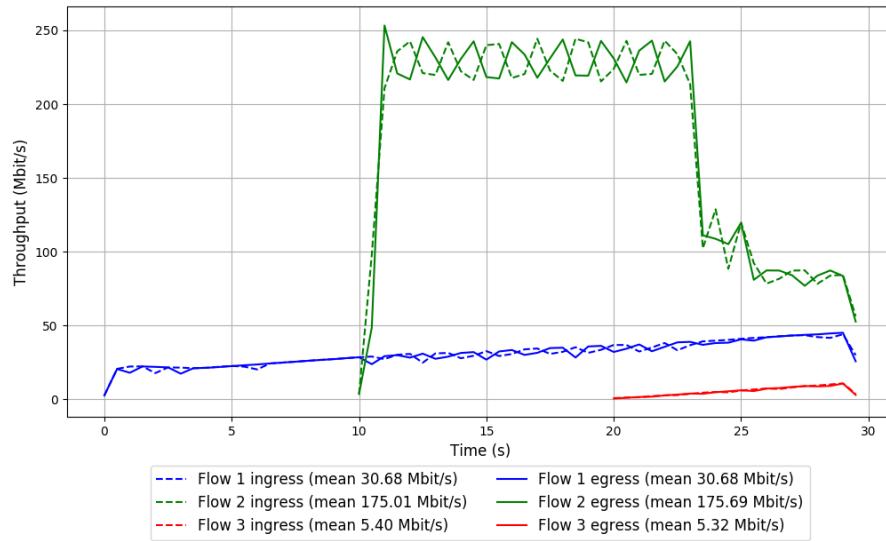
Run 10: Statistics of TCP Vegas

Start at: 2018-02-14 08:11:36

End at: 2018-02-14 08:12:06

```
# Below is generated by plot.py at 2018-02-14 12:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.16 Mbit/s
95th percentile per-packet one-way delay: 57.351 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 56.629 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 175.69 Mbit/s
95th percentile per-packet one-way delay: 57.445 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 54.605 ms
Loss rate: 2.66%
```

Run 10: Report of TCP Vegas — Data Link



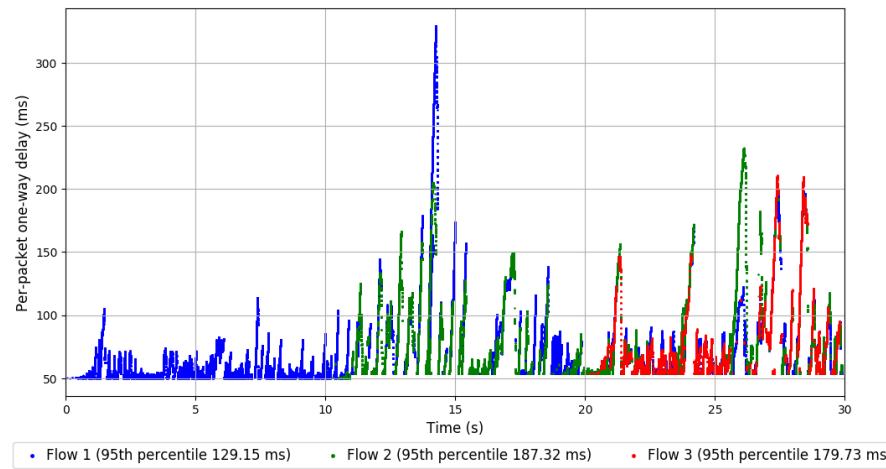
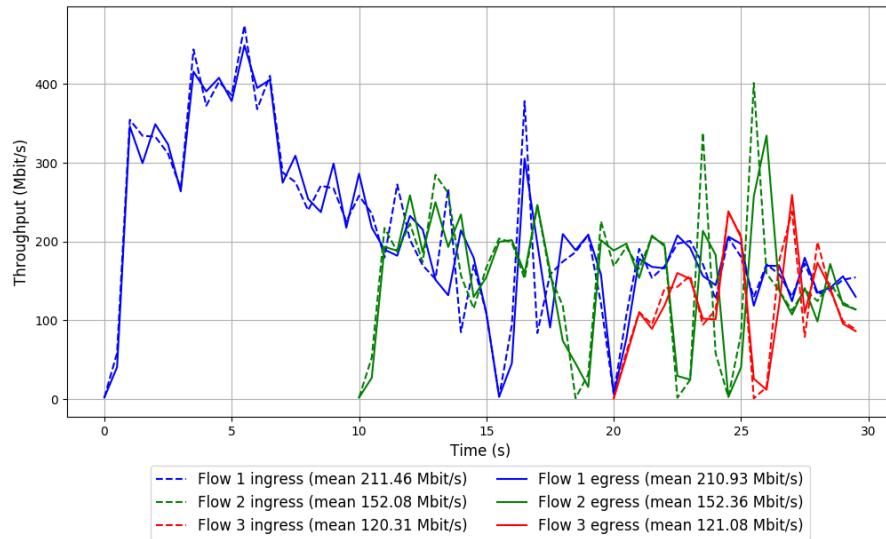
Run 1: Statistics of Verus

Start at: 2018-02-14 05:37:49

End at: 2018-02-14 05:38:19

```
# Below is generated by plot.py at 2018-02-14 12:24:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.50 Mbit/s
95th percentile per-packet one-way delay: 156.589 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 210.93 Mbit/s
95th percentile per-packet one-way delay: 129.150 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 152.36 Mbit/s
95th percentile per-packet one-way delay: 187.318 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 121.08 Mbit/s
95th percentile per-packet one-way delay: 179.729 ms
Loss rate: 1.49%
```

Run 1: Report of Verus — Data Link



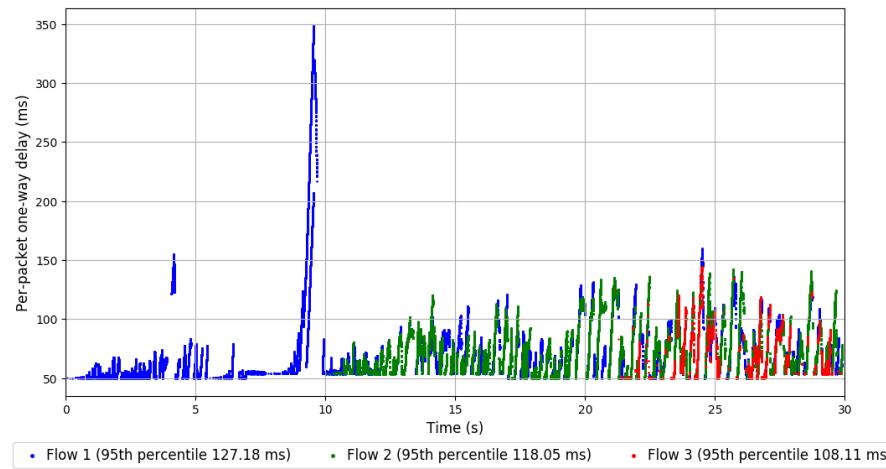
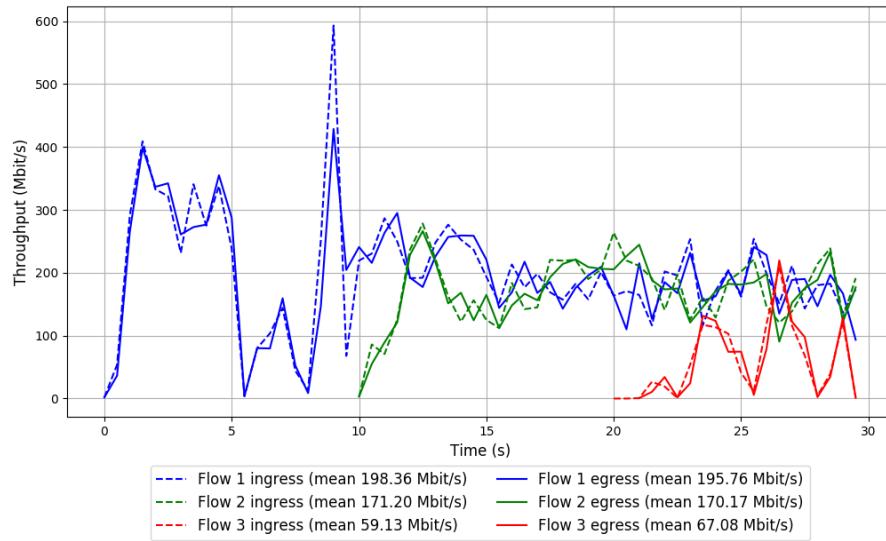
Run 2: Statistics of Verus

Start at: 2018-02-14 05:55:13

End at: 2018-02-14 05:55:43

```
# Below is generated by plot.py at 2018-02-14 12:24:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.39 Mbit/s
95th percentile per-packet one-way delay: 121.370 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 195.76 Mbit/s
95th percentile per-packet one-way delay: 127.176 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 170.17 Mbit/s
95th percentile per-packet one-way delay: 118.053 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 67.08 Mbit/s
95th percentile per-packet one-way delay: 108.113 ms
Loss rate: 0.06%
```

Run 2: Report of Verus — Data Link



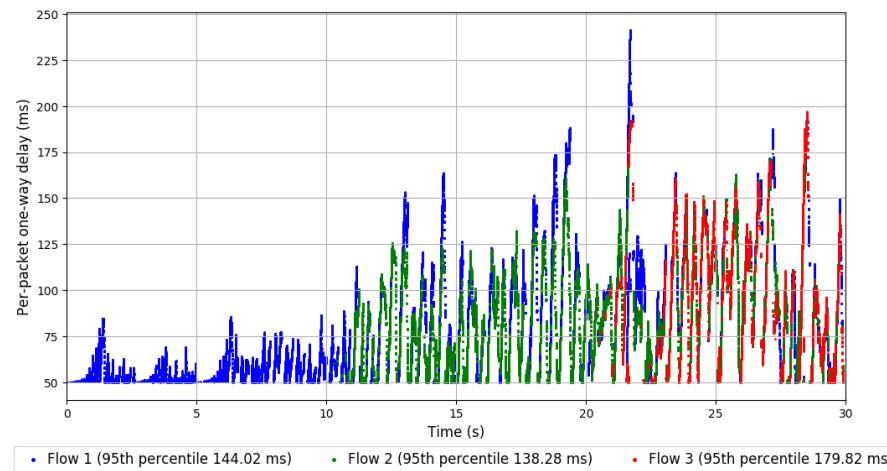
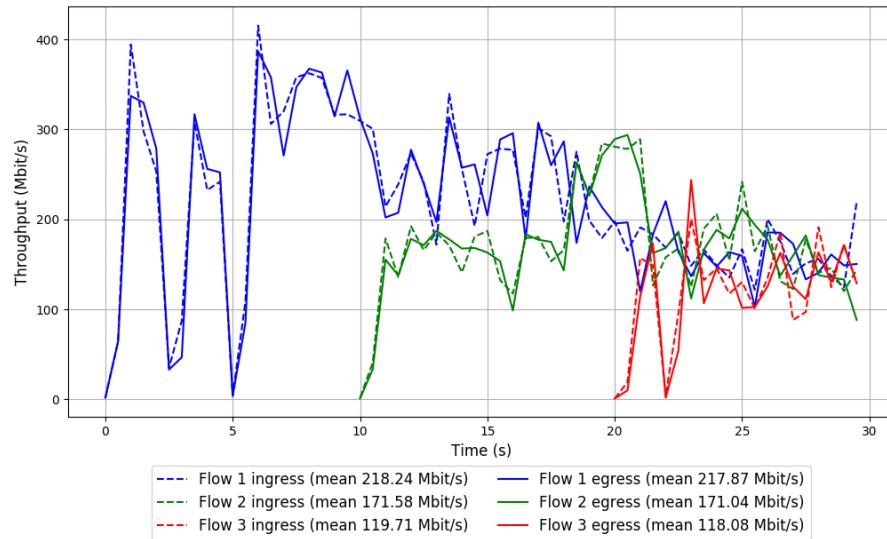
Run 3: Statistics of Verus

Start at: 2018-02-14 06:12:40

End at: 2018-02-14 06:13:10

```
# Below is generated by plot.py at 2018-02-14 12:25:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.11 Mbit/s
95th percentile per-packet one-way delay: 147.539 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 217.87 Mbit/s
95th percentile per-packet one-way delay: 144.022 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 171.04 Mbit/s
95th percentile per-packet one-way delay: 138.278 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 118.08 Mbit/s
95th percentile per-packet one-way delay: 179.816 ms
Loss rate: 2.42%
```

Run 3: Report of Verus — Data Link



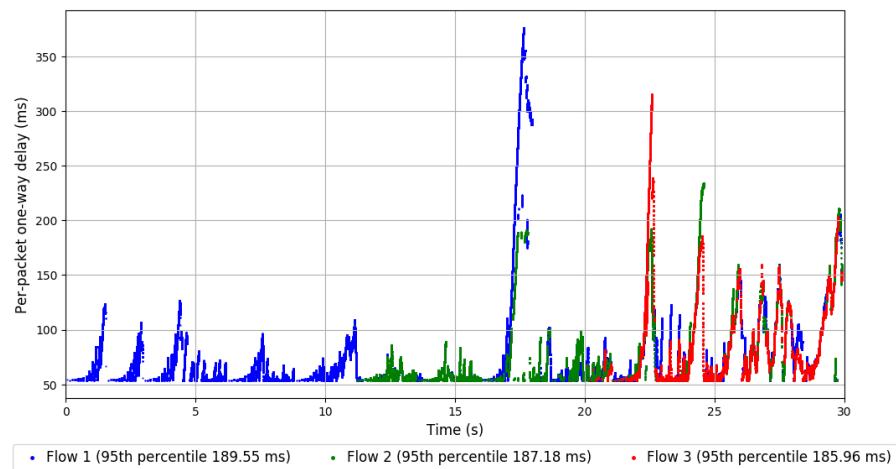
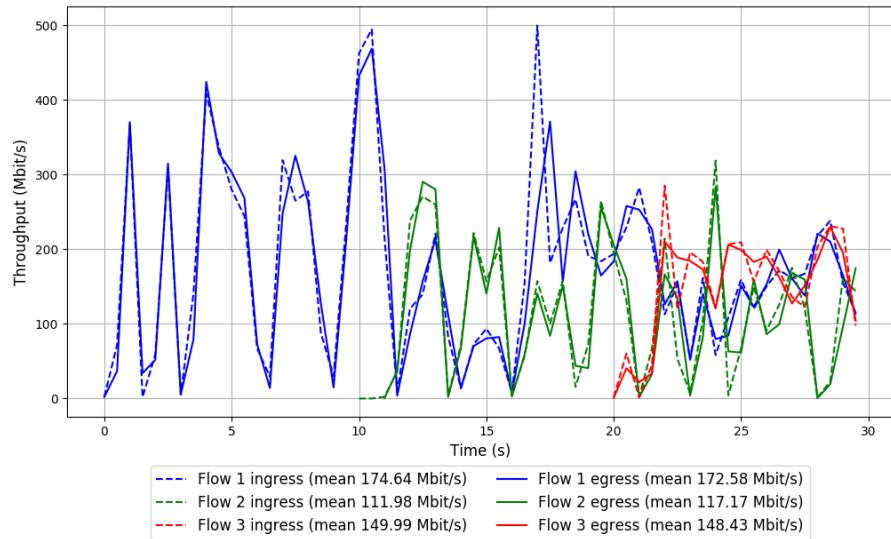
Run 4: Statistics of Verus

Start at: 2018-02-14 06:30:05

End at: 2018-02-14 06:30:35

```
# Below is generated by plot.py at 2018-02-14 12:25:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.06 Mbit/s
95th percentile per-packet one-way delay: 187.302 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 172.58 Mbit/s
95th percentile per-packet one-way delay: 189.548 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 117.17 Mbit/s
95th percentile per-packet one-way delay: 187.182 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 148.43 Mbit/s
95th percentile per-packet one-way delay: 185.964 ms
Loss rate: 2.23%
```

Run 4: Report of Verus — Data Link



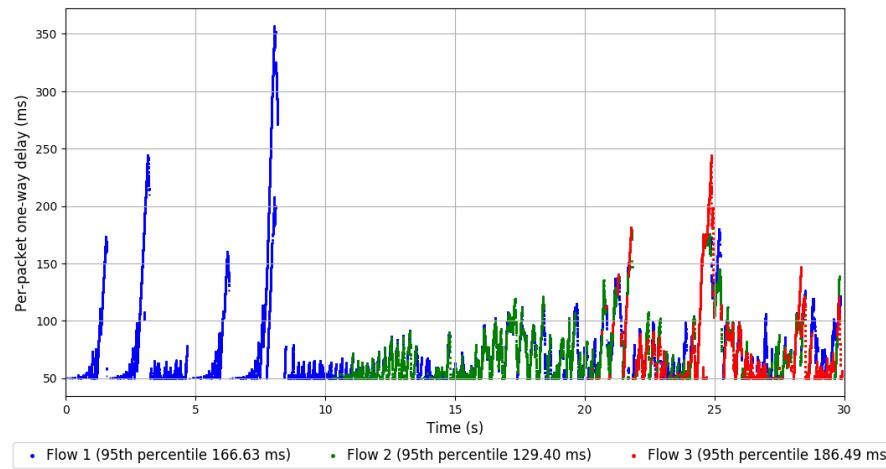
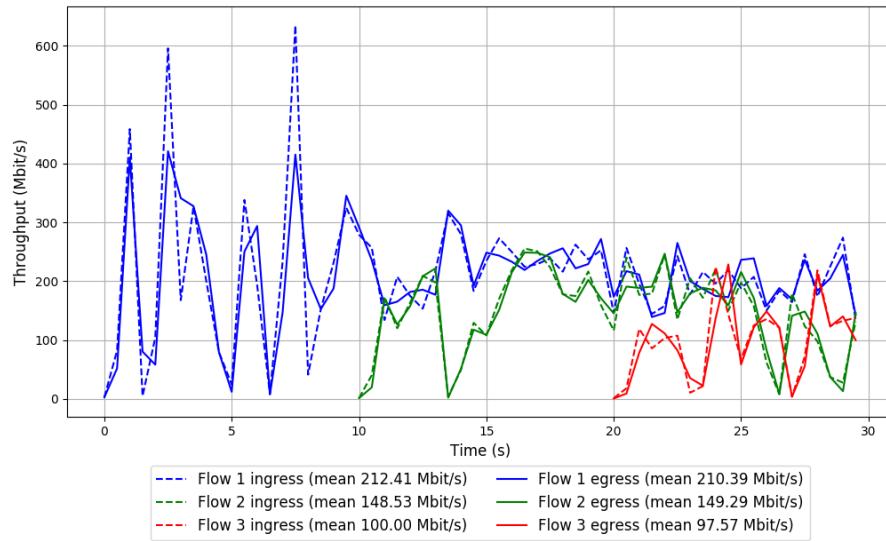
Run 5: Statistics of Verus

Start at: 2018-02-14 06:47:30

End at: 2018-02-14 06:48:00

```
# Below is generated by plot.py at 2018-02-14 12:25:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.82 Mbit/s
95th percentile per-packet one-way delay: 164.565 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 210.39 Mbit/s
95th percentile per-packet one-way delay: 166.633 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 149.29 Mbit/s
95th percentile per-packet one-way delay: 129.403 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 97.57 Mbit/s
95th percentile per-packet one-way delay: 186.486 ms
Loss rate: 2.94%
```

Run 5: Report of Verus — Data Link



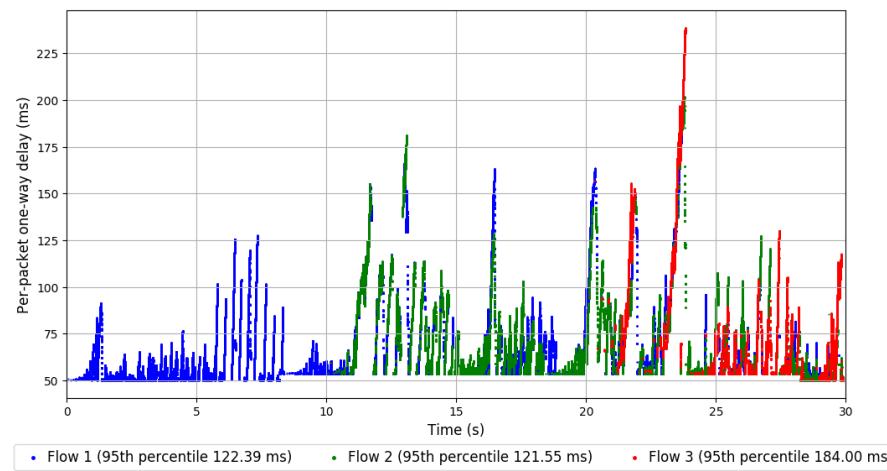
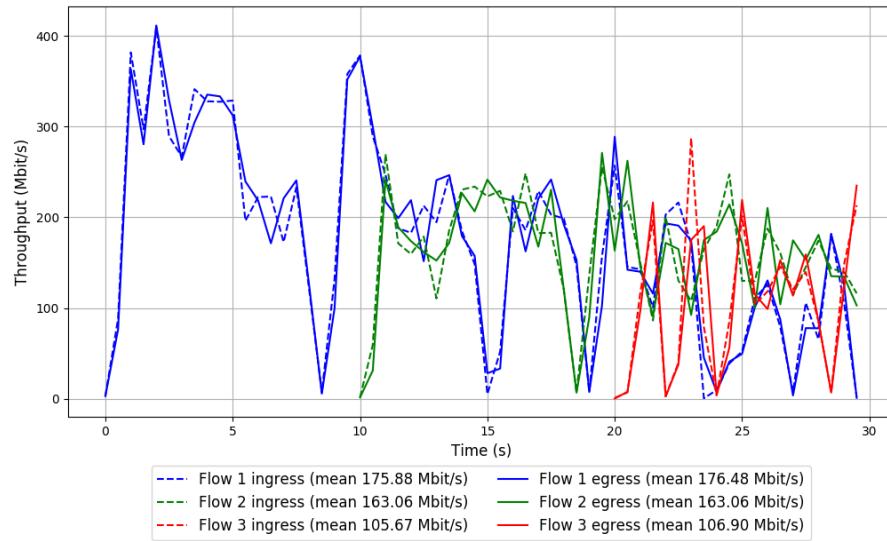
Run 6: Statistics of Verus

Start at: 2018-02-14 07:05:02

End at: 2018-02-14 07:05:32

```
# Below is generated by plot.py at 2018-02-14 12:25:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.63 Mbit/s
95th percentile per-packet one-way delay: 132.811 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 176.48 Mbit/s
95th percentile per-packet one-way delay: 122.393 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 163.06 Mbit/s
95th percentile per-packet one-way delay: 121.548 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 106.90 Mbit/s
95th percentile per-packet one-way delay: 183.998 ms
Loss rate: 0.34%
```

Run 6: Report of Verus — Data Link



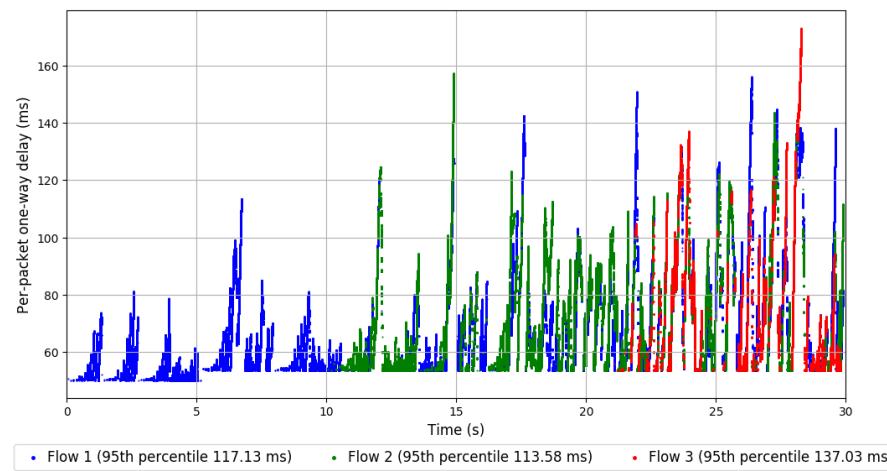
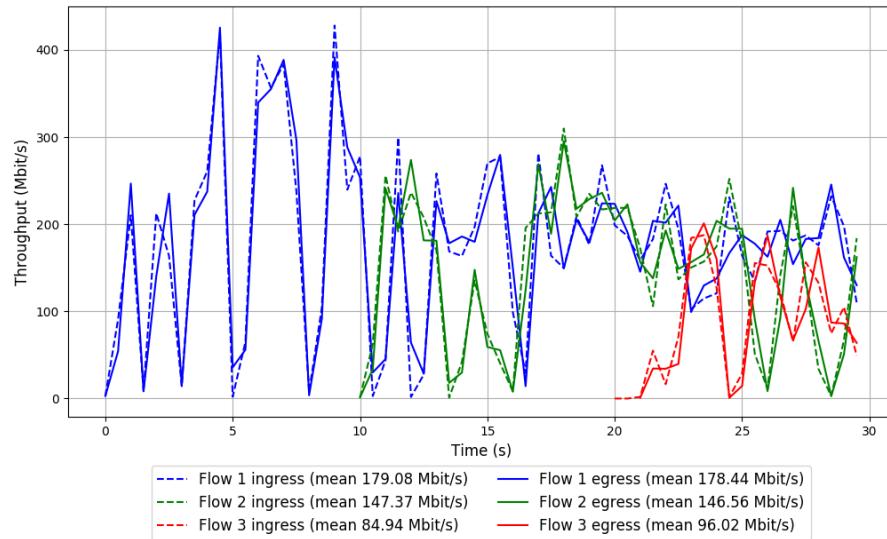
Run 7: Statistics of Verus

Start at: 2018-02-14 07:22:35

End at: 2018-02-14 07:23:05

```
# Below is generated by plot.py at 2018-02-14 12:25:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.88 Mbit/s
95th percentile per-packet one-way delay: 118.344 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 178.44 Mbit/s
95th percentile per-packet one-way delay: 117.134 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 146.56 Mbit/s
95th percentile per-packet one-way delay: 113.578 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 137.035 ms
Loss rate: 0.66%
```

Run 7: Report of Verus — Data Link



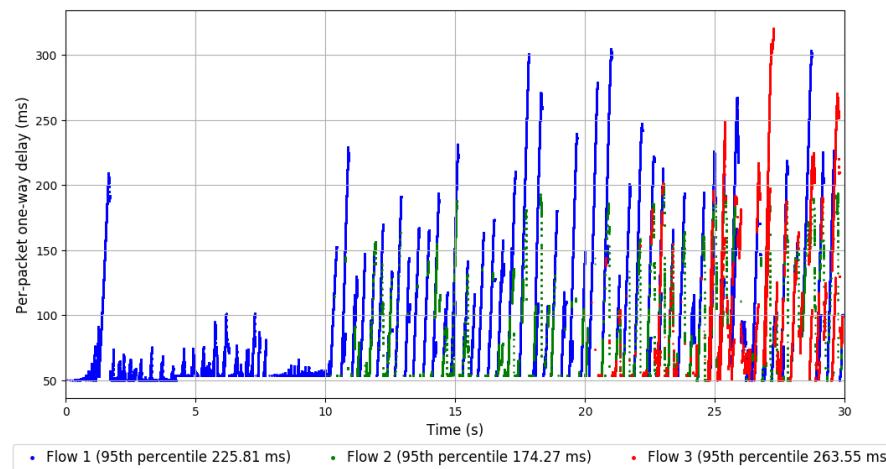
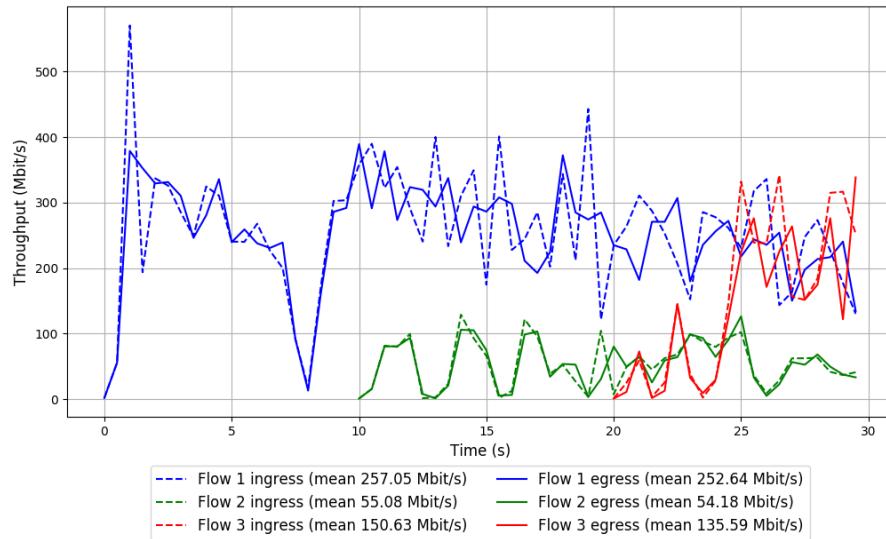
Run 8: Statistics of Verus

Start at: 2018-02-14 07:39:36

End at: 2018-02-14 07:40:06

```
# Below is generated by plot.py at 2018-02-14 12:25:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.20 Mbit/s
95th percentile per-packet one-way delay: 225.972 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 252.64 Mbit/s
95th percentile per-packet one-way delay: 225.808 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 54.18 Mbit/s
95th percentile per-packet one-way delay: 174.271 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 135.59 Mbit/s
95th percentile per-packet one-way delay: 263.545 ms
Loss rate: 11.22%
```

Run 8: Report of Verus — Data Link



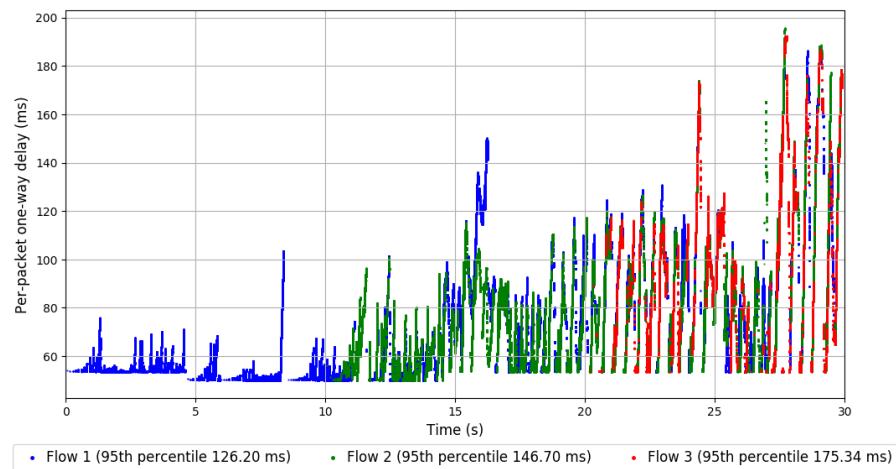
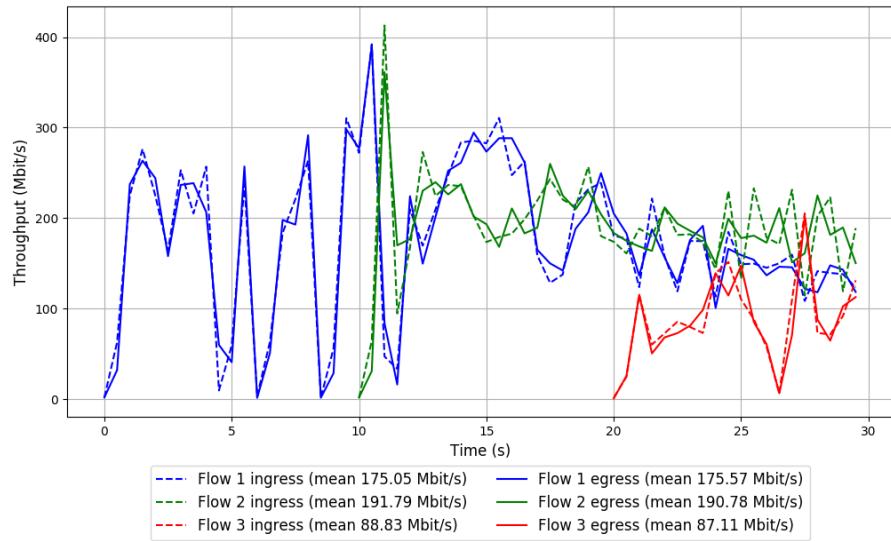
Run 9: Statistics of Verus

Start at: 2018-02-14 07:57:06

End at: 2018-02-14 07:57:36

```
# Below is generated by plot.py at 2018-02-14 12:29:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.24 Mbit/s
95th percentile per-packet one-way delay: 143.092 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 175.57 Mbit/s
95th percentile per-packet one-way delay: 126.204 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 190.78 Mbit/s
95th percentile per-packet one-way delay: 146.697 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 175.339 ms
Loss rate: 2.43%
```

Run 9: Report of Verus — Data Link



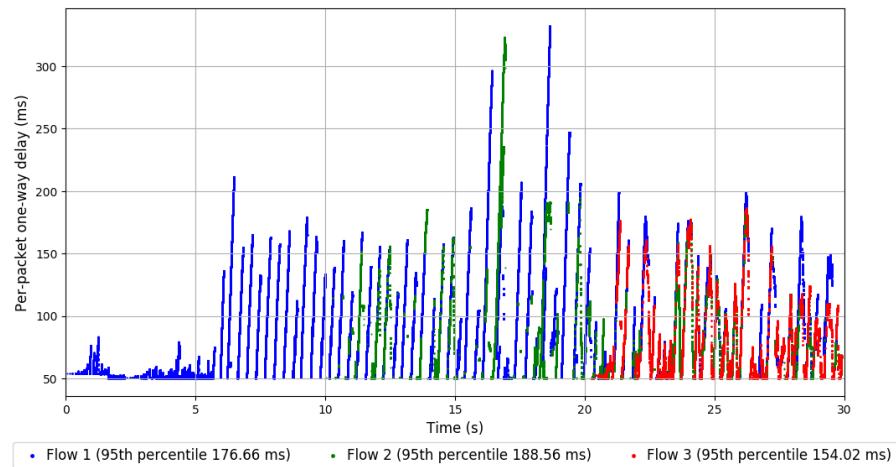
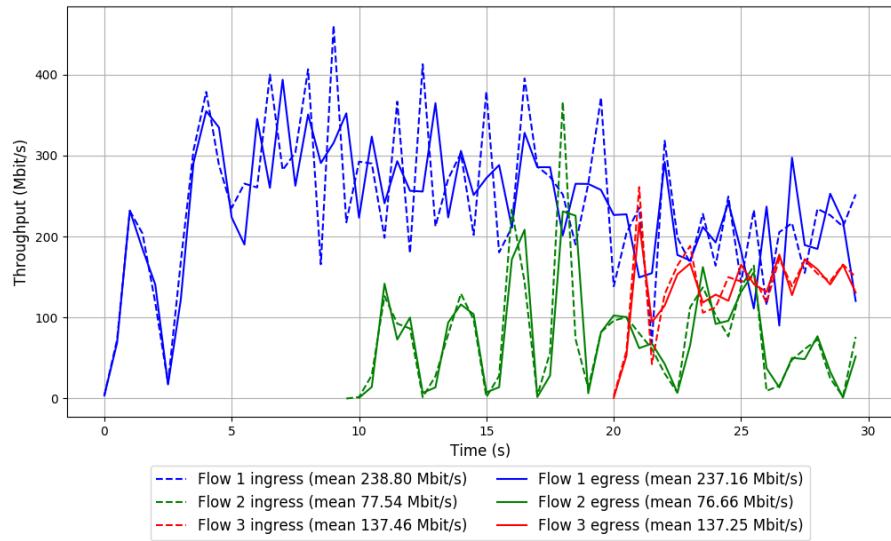
Run 10: Statistics of Verus

Start at: 2018-02-14 08:14:29

End at: 2018-02-14 08:14:59

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.69 Mbit/s
95th percentile per-packet one-way delay: 177.739 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 237.16 Mbit/s
95th percentile per-packet one-way delay: 176.664 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 76.66 Mbit/s
95th percentile per-packet one-way delay: 188.559 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 137.25 Mbit/s
95th percentile per-packet one-way delay: 154.021 ms
Loss rate: 1.68%
```

Run 10: Report of Verus — Data Link



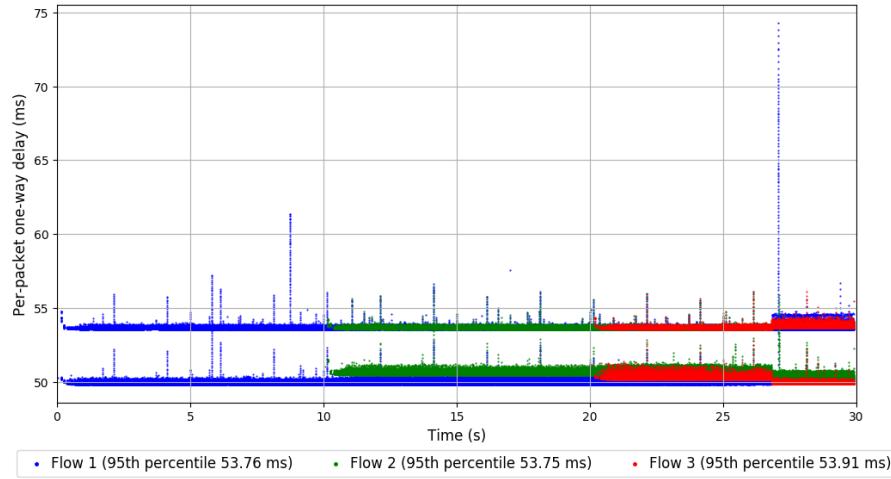
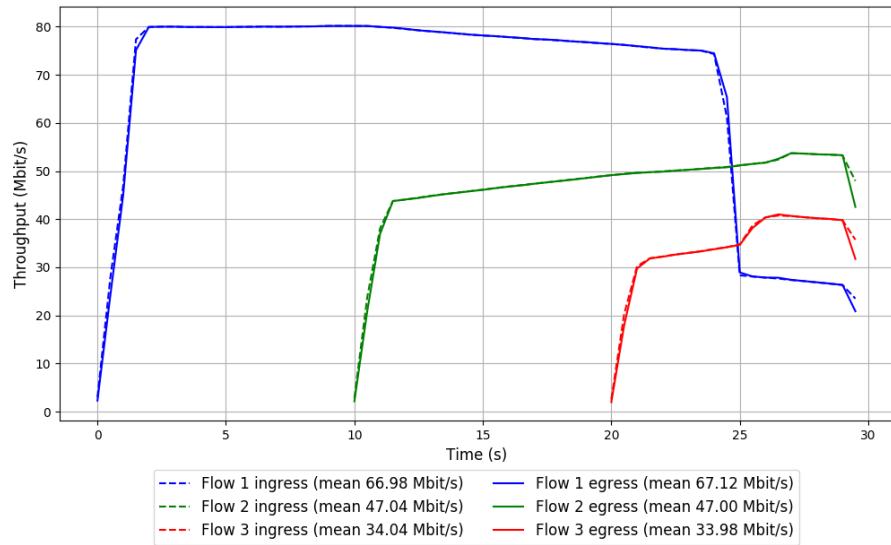
Run 1: Statistics of Copa

Start at: 2018-02-14 05:45:23

End at: 2018-02-14 05:45:53

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.54 Mbit/s
95th percentile per-packet one-way delay: 53.773 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 67.12 Mbit/s
95th percentile per-packet one-way delay: 53.759 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 53.753 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 33.98 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 1.18%
```

Run 1: Report of Copa — Data Link



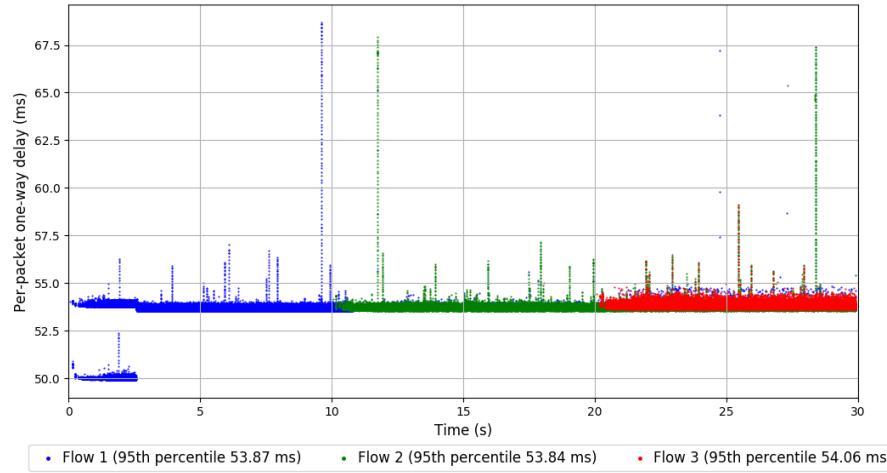
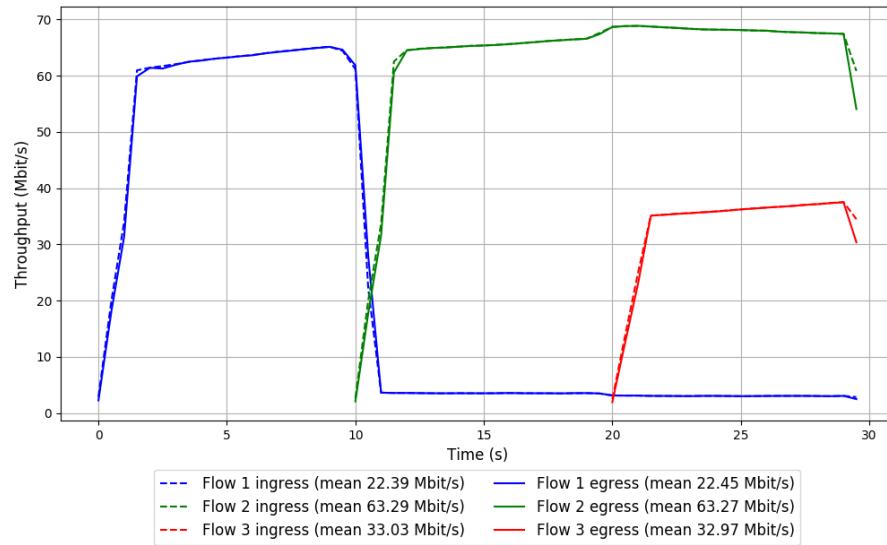
Run 2: Statistics of Copa

Start at: 2018-02-14 06:02:48

End at: 2018-02-14 06:03:18

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.37 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 53.871 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 63.27 Mbit/s
95th percentile per-packet one-way delay: 53.838 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 54.059 ms
Loss rate: 1.24%
```

Run 2: Report of Copa — Data Link



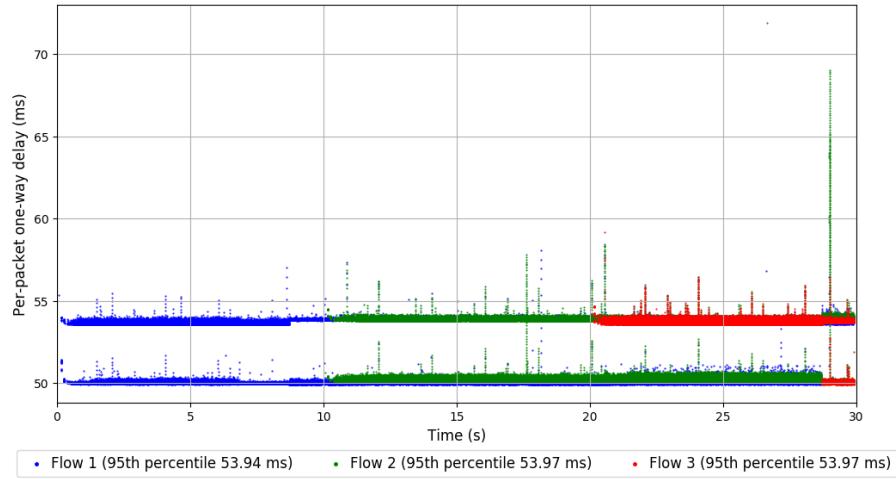
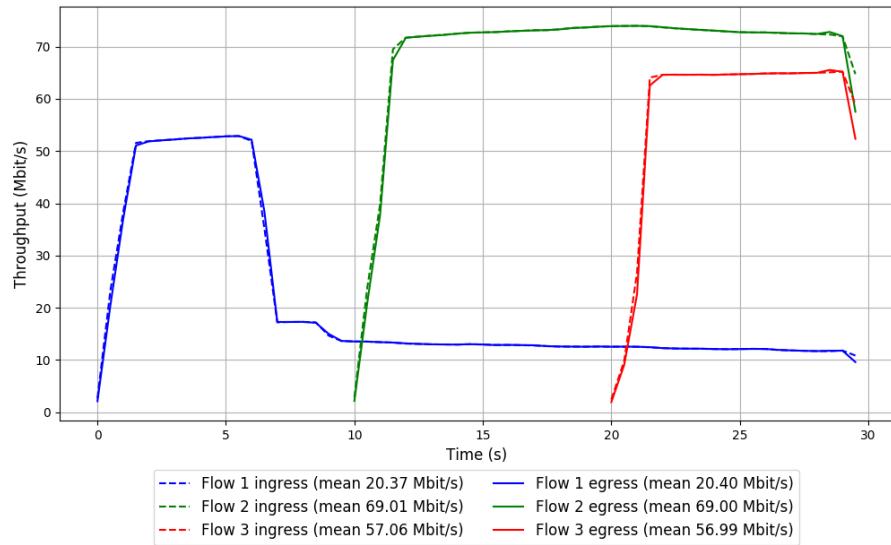
Run 3: Statistics of Copa

Start at: 2018-02-14 06:20:12

End at: 2018-02-14 06:20:42

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 53.965 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 69.00 Mbit/s
95th percentile per-packet one-way delay: 53.974 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 53.971 ms
Loss rate: 1.16%
```

Run 3: Report of Copa — Data Link



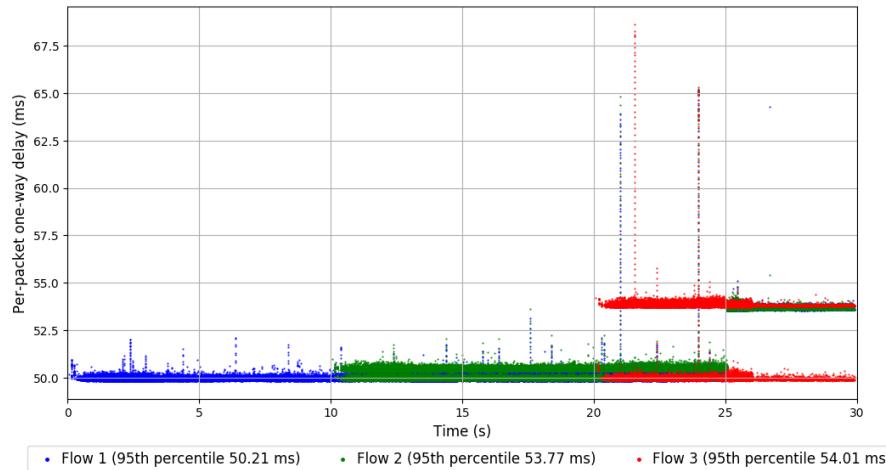
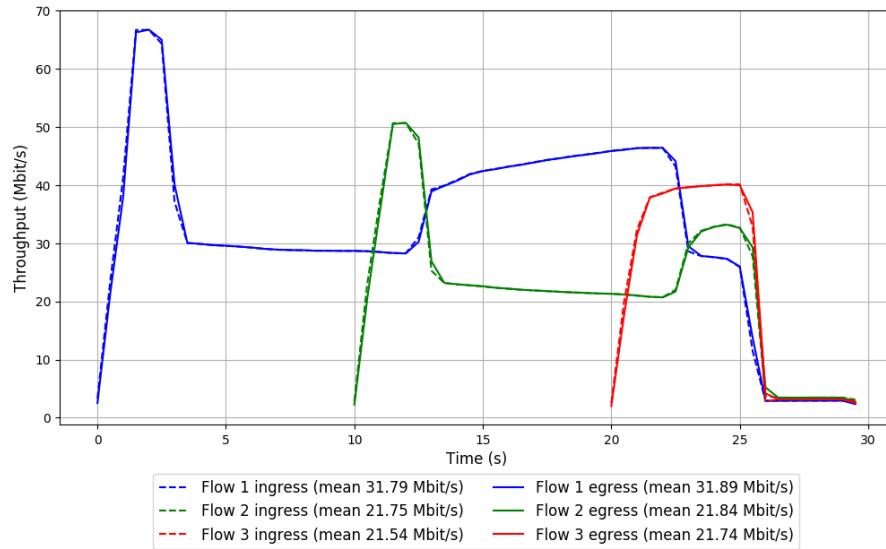
Run 4: Statistics of Copa

Start at: 2018-02-14 06:37:35

End at: 2018-02-14 06:38:05

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 53.818 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 50.207 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 53.771 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 54.005 ms
Loss rate: 0.15%
```

Run 4: Report of Copa — Data Link



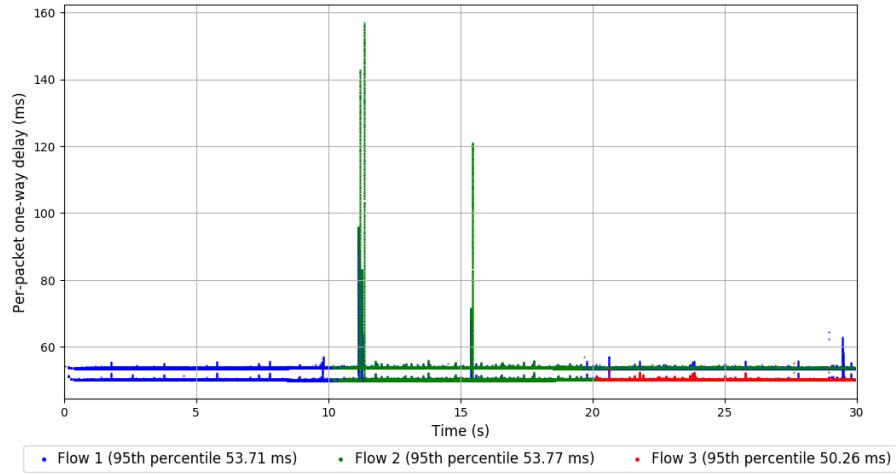
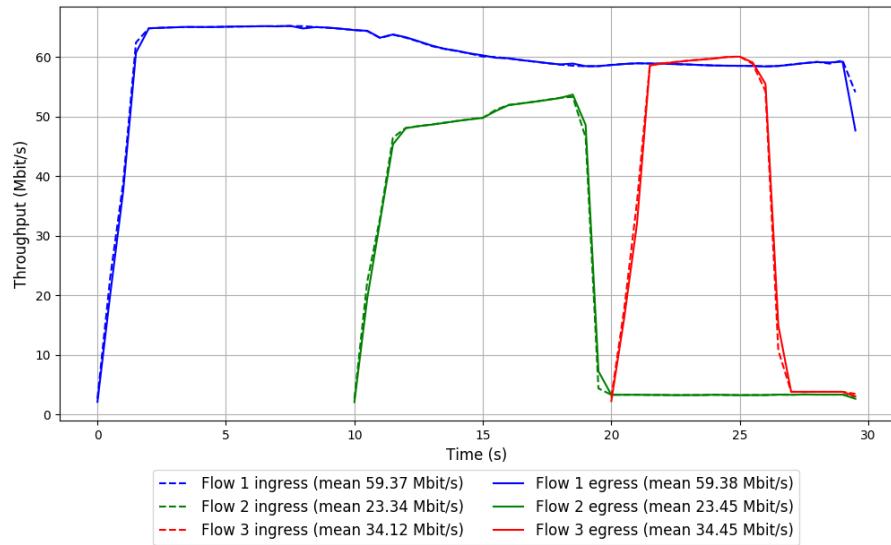
Run 5: Statistics of Copa

Start at: 2018-02-14 06:55:02

End at: 2018-02-14 06:55:32

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 53.713 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 59.38 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 53.774 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 50.257 ms
Loss rate: 0.12%
```

Run 5: Report of Copa — Data Link



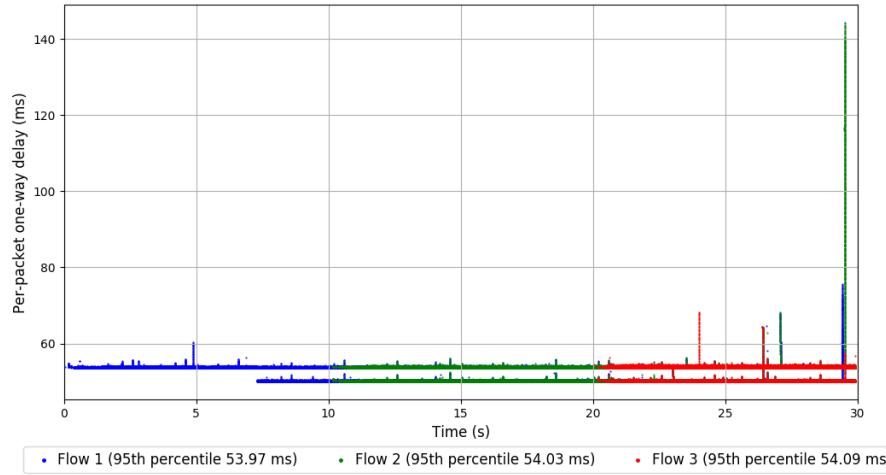
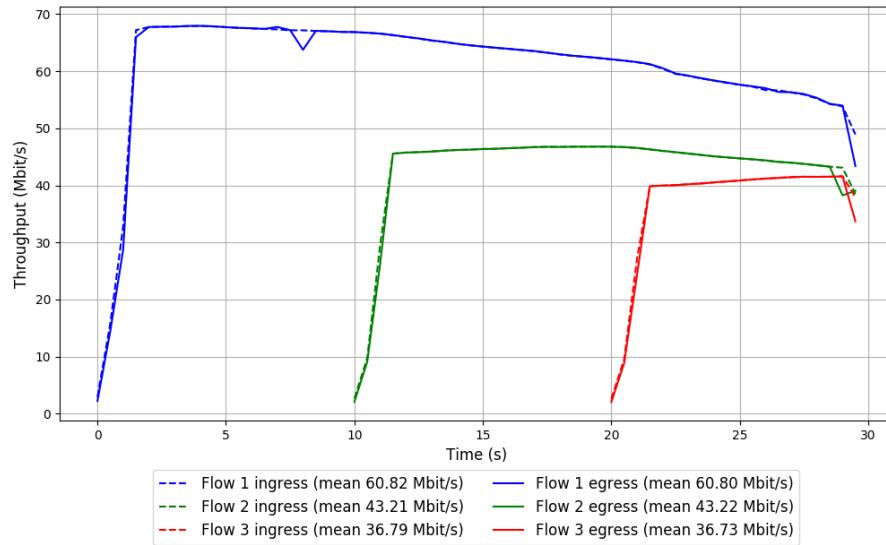
Run 6: Statistics of Copa

Start at: 2018-02-14 07:12:33

End at: 2018-02-14 07:13:03

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.59 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 60.80 Mbit/s
95th percentile per-packet one-way delay: 53.968 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 43.22 Mbit/s
95th percentile per-packet one-way delay: 54.028 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 54.085 ms
Loss rate: 1.16%
```

Run 6: Report of Copa — Data Link



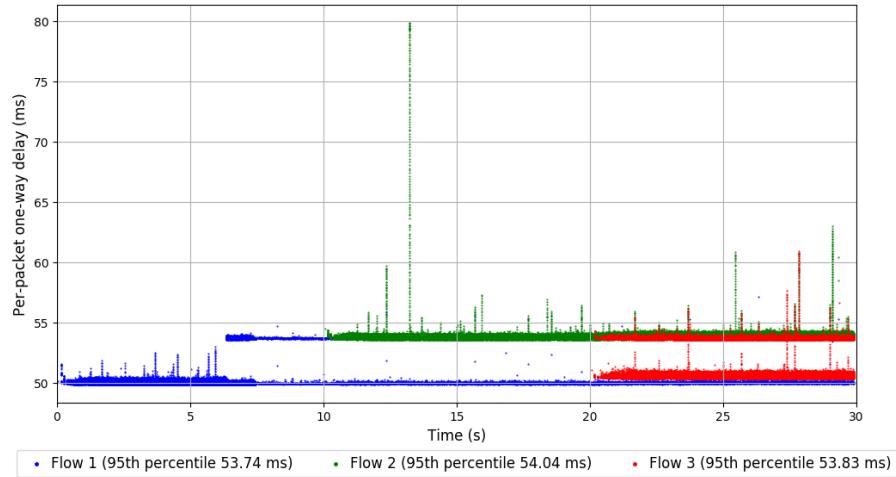
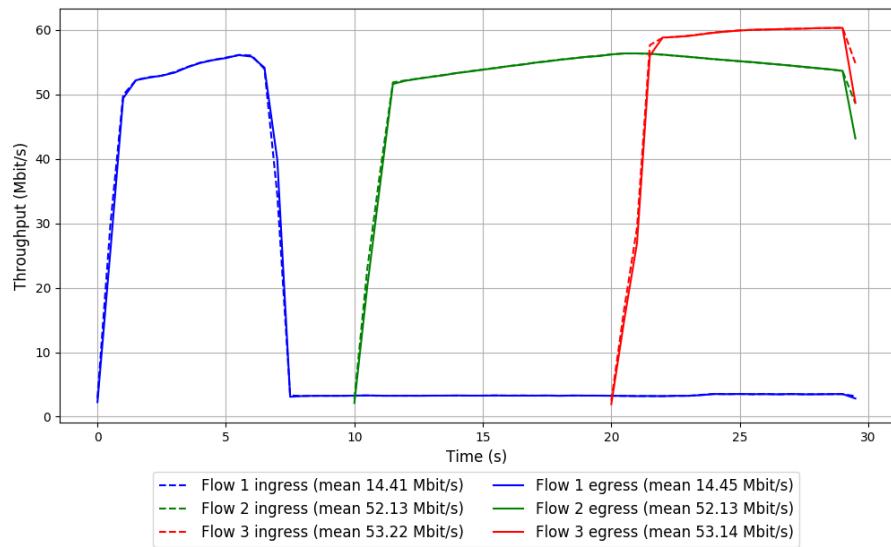
Run 7: Statistics of Copa

Start at: 2018-02-14 07:30:04

End at: 2018-02-14 07:30:34

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 53.991 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 54.037 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 53.828 ms
Loss rate: 1.19%
```

Run 7: Report of Copa — Data Link



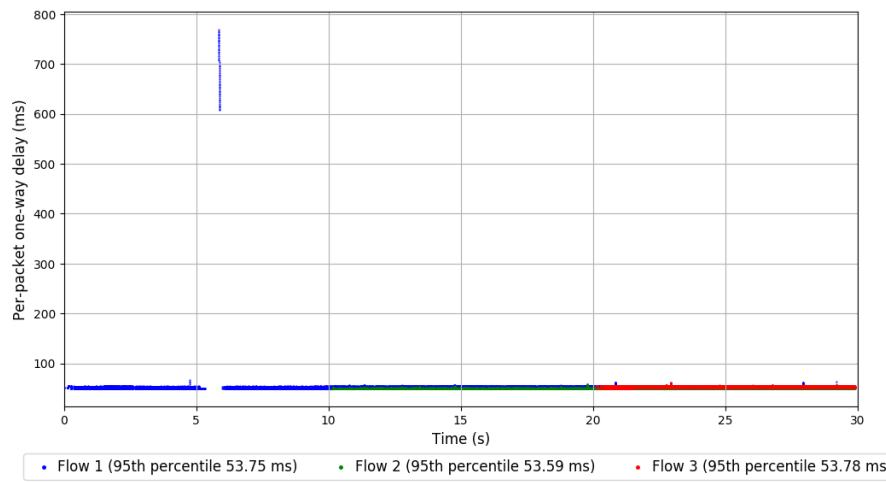
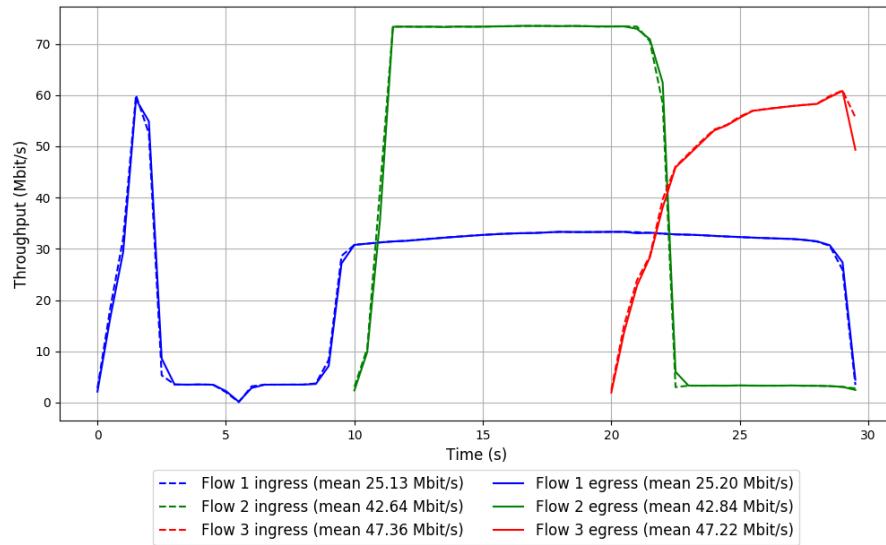
Run 8: Statistics of Copa

Start at: 2018-02-14 07:47:09

End at: 2018-02-14 07:47:39

```
# Below is generated by plot.py at 2018-02-14 12:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.22 Mbit/s
95th percentile per-packet one-way delay: 53.724 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 25.20 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.84 Mbit/s
95th percentile per-packet one-way delay: 53.594 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 47.22 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 1.37%
```

Run 8: Report of Copa — Data Link



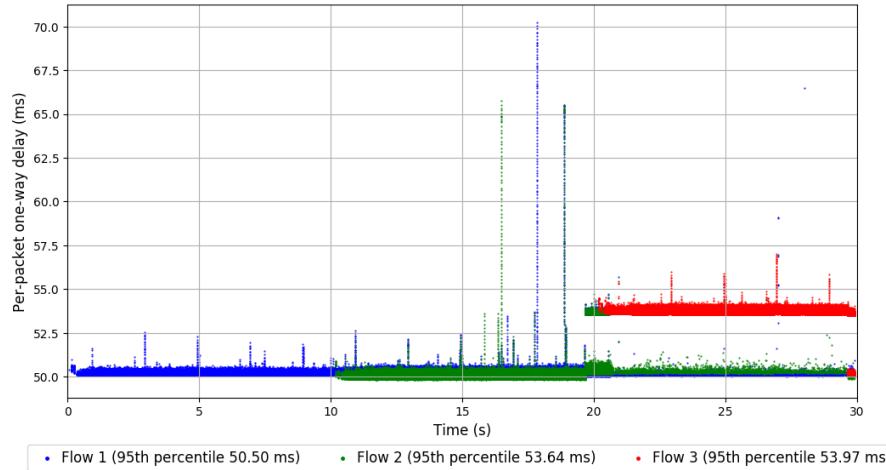
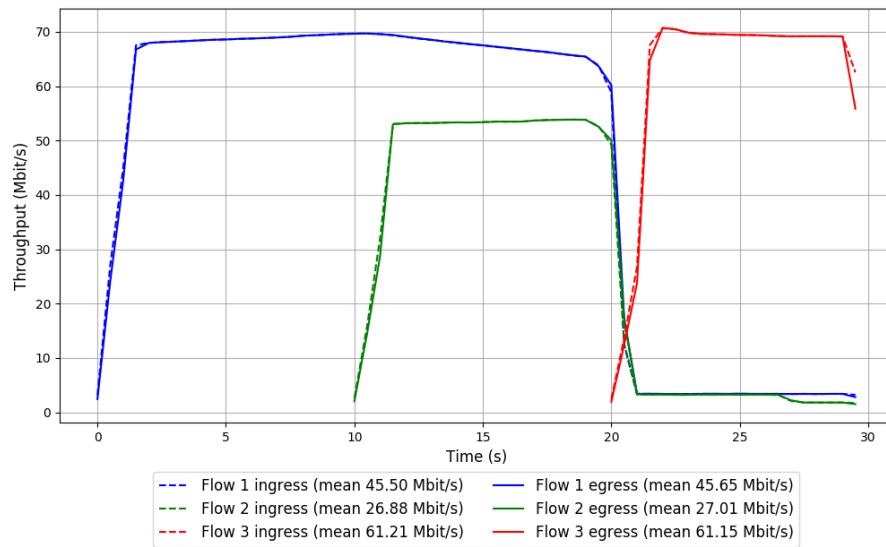
Run 9: Statistics of Copa

Start at: 2018-02-14 08:04:41

End at: 2018-02-14 08:05:11

```
# Below is generated by plot.py at 2018-02-14 12:30:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 53.868 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 45.65 Mbit/s
95th percentile per-packet one-way delay: 50.496 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 53.643 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 61.15 Mbit/s
95th percentile per-packet one-way delay: 53.971 ms
Loss rate: 1.16%
```

Run 9: Report of Copa — Data Link



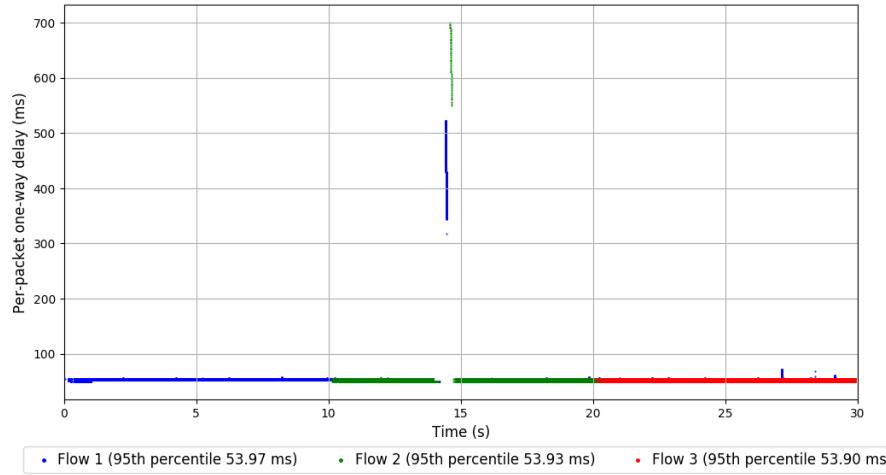
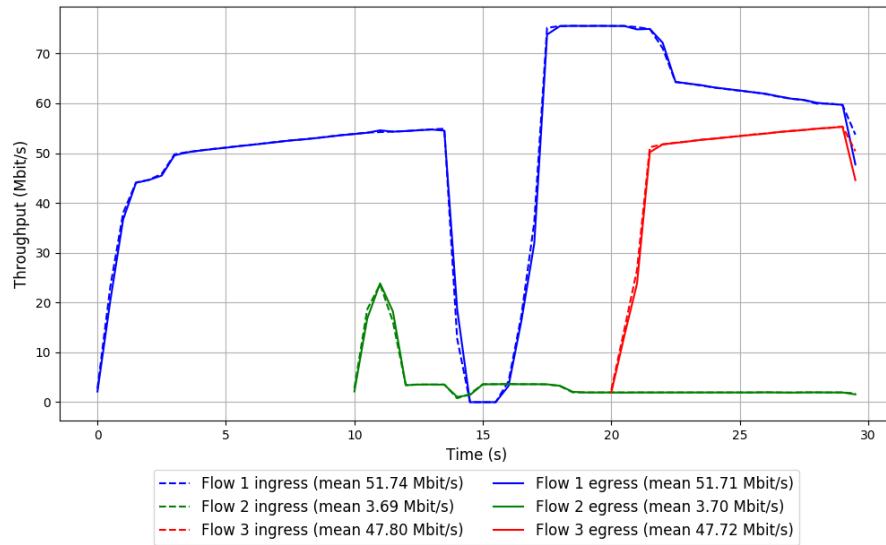
Run 10: Statistics of Copa

Start at: 2018-02-14 08:21:59

End at: 2018-02-14 08:22:29

```
# Below is generated by plot.py at 2018-02-14 12:30:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.89 Mbit/s
95th percentile per-packet one-way delay: 53.953 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 51.71 Mbit/s
95th percentile per-packet one-way delay: 53.969 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 53.933 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 47.72 Mbit/s
95th percentile per-packet one-way delay: 53.899 ms
Loss rate: 1.24%
```

Run 10: Report of Copa — Data Link

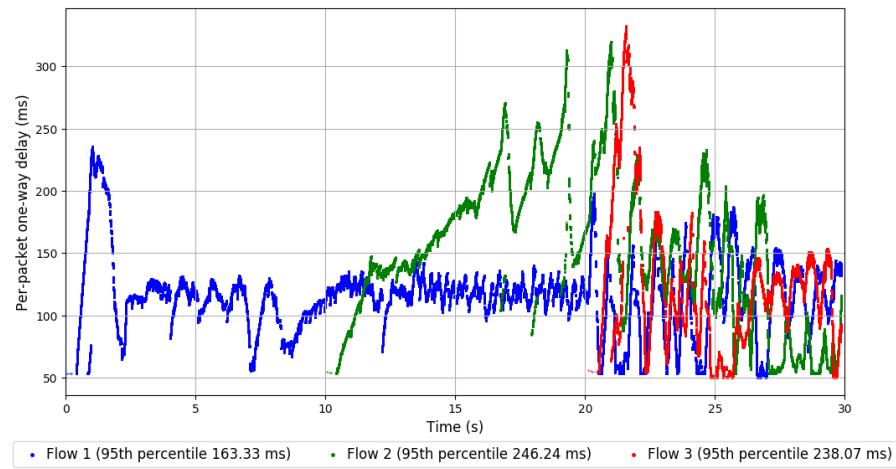
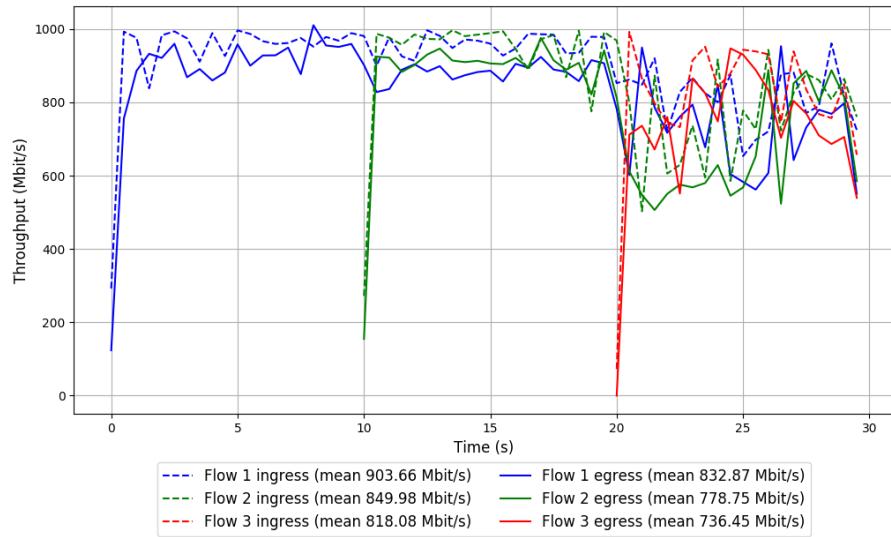


```
Run 1: Statistics of FillP

Start at: 2018-02-14 05:39:45
End at: 2018-02-14 05:40:15

# Below is generated by plot.py at 2018-02-14 12:58:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1591.57 Mbit/s
95th percentile per-packet one-way delay: 224.341 ms
Loss rate: 8.82%
-- Flow 1:
Average throughput: 832.87 Mbit/s
95th percentile per-packet one-way delay: 163.331 ms
Loss rate: 8.16%
-- Flow 2:
Average throughput: 778.75 Mbit/s
95th percentile per-packet one-way delay: 246.241 ms
Loss rate: 8.87%
-- Flow 3:
Average throughput: 736.45 Mbit/s
95th percentile per-packet one-way delay: 238.071 ms
Loss rate: 10.96%
```

Run 1: Report of FillP — Data Link



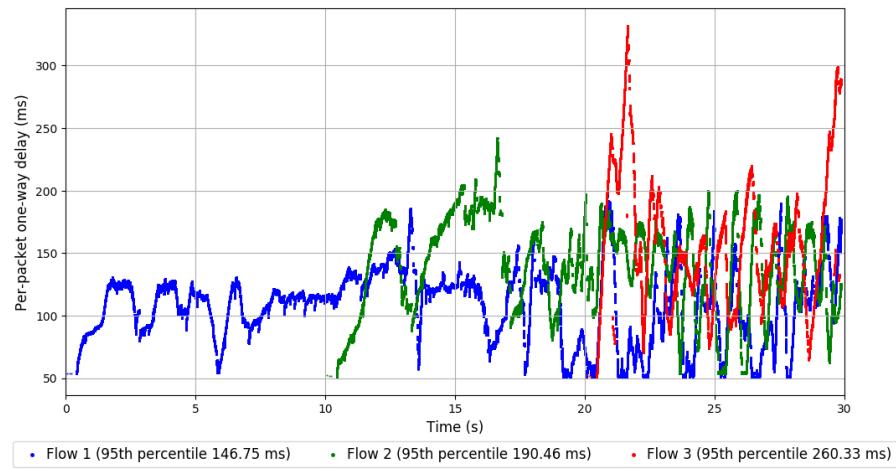
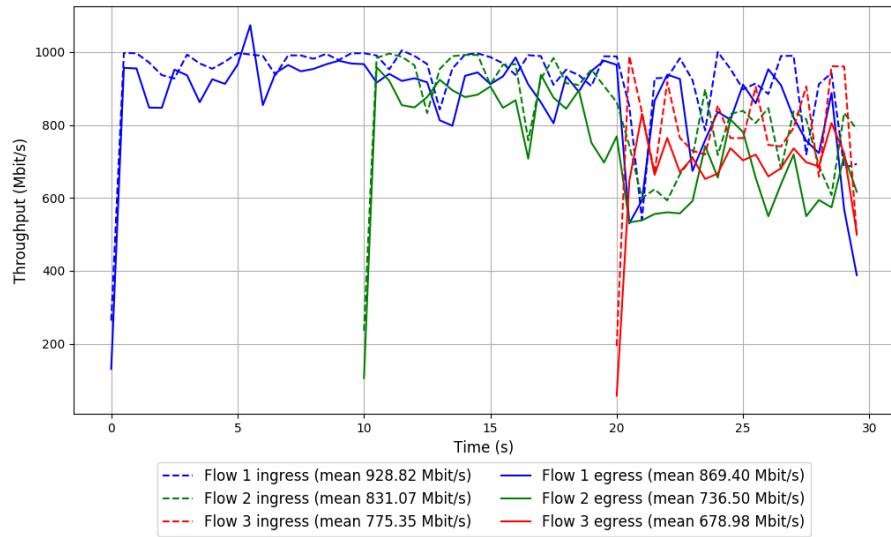
Run 2: Statistics of FillP

Start at: 2018-02-14 05:57:10

End at: 2018-02-14 05:57:40

```
# Below is generated by plot.py at 2018-02-14 12:58:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1581.89 Mbit/s
95th percentile per-packet one-way delay: 190.443 ms
Loss rate: 9.33%
-- Flow 1:
Average throughput: 869.40 Mbit/s
95th percentile per-packet one-way delay: 146.750 ms
Loss rate: 6.73%
-- Flow 2:
Average throughput: 736.50 Mbit/s
95th percentile per-packet one-way delay: 190.456 ms
Loss rate: 11.85%
-- Flow 3:
Average throughput: 678.98 Mbit/s
95th percentile per-packet one-way delay: 260.329 ms
Loss rate: 13.35%
```

Run 2: Report of FillP — Data Link



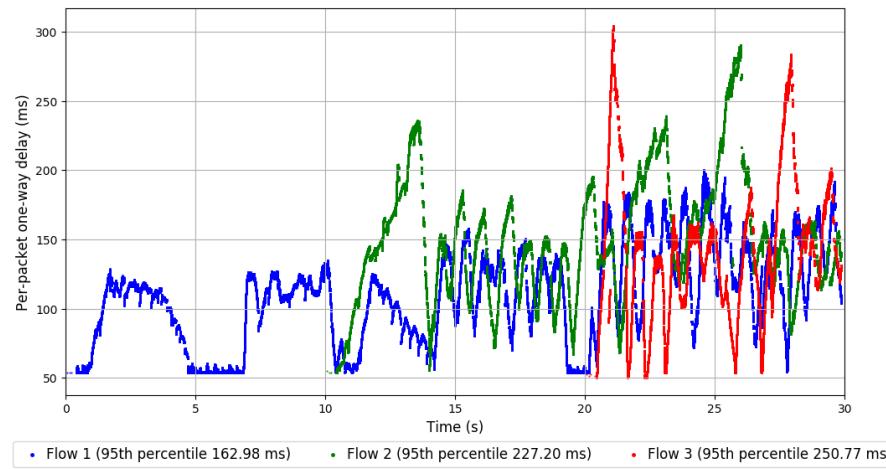
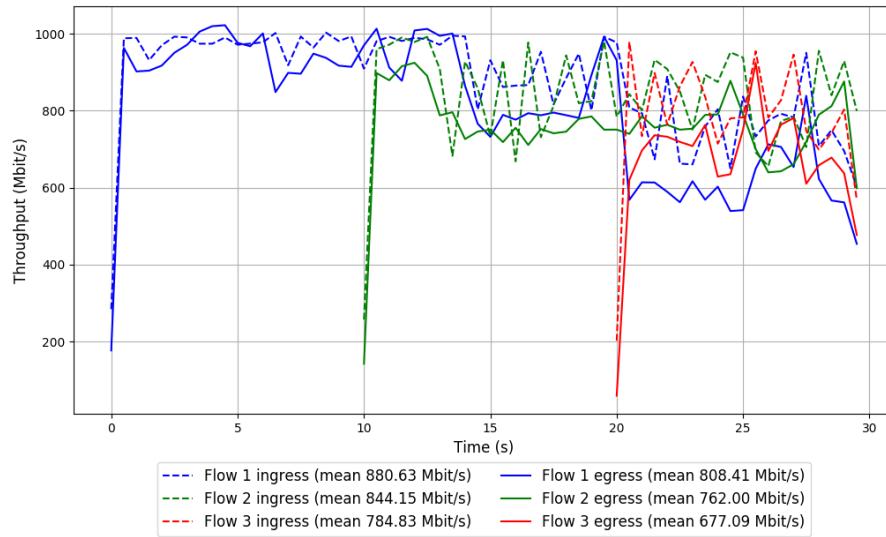
Run 3: Statistics of FillP

Start at: 2018-02-14 06:14:37

End at: 2018-02-14 06:15:07

```
# Below is generated by plot.py at 2018-02-14 12:58:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1537.26 Mbit/s
95th percentile per-packet one-way delay: 206.969 ms
Loss rate: 10.01%
-- Flow 1:
Average throughput: 808.41 Mbit/s
95th percentile per-packet one-way delay: 162.978 ms
Loss rate: 8.52%
-- Flow 2:
Average throughput: 762.00 Mbit/s
95th percentile per-packet one-way delay: 227.200 ms
Loss rate: 10.21%
-- Flow 3:
Average throughput: 677.09 Mbit/s
95th percentile per-packet one-way delay: 250.770 ms
Loss rate: 14.63%
```

Run 3: Report of FillP — Data Link



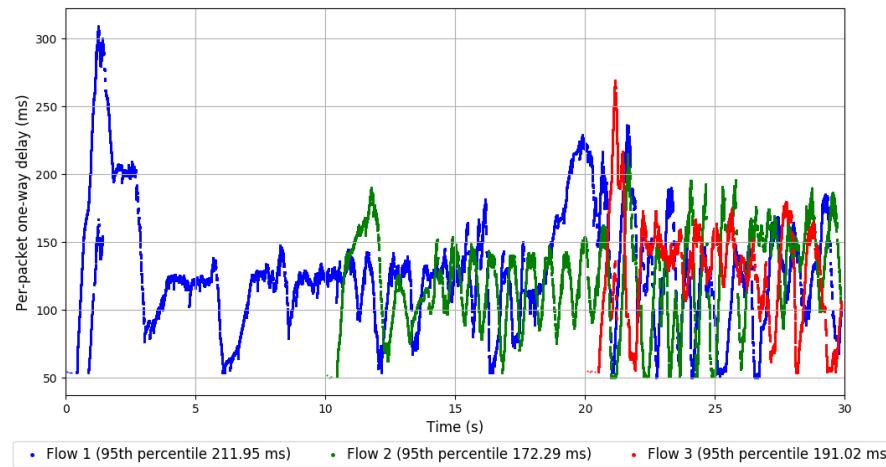
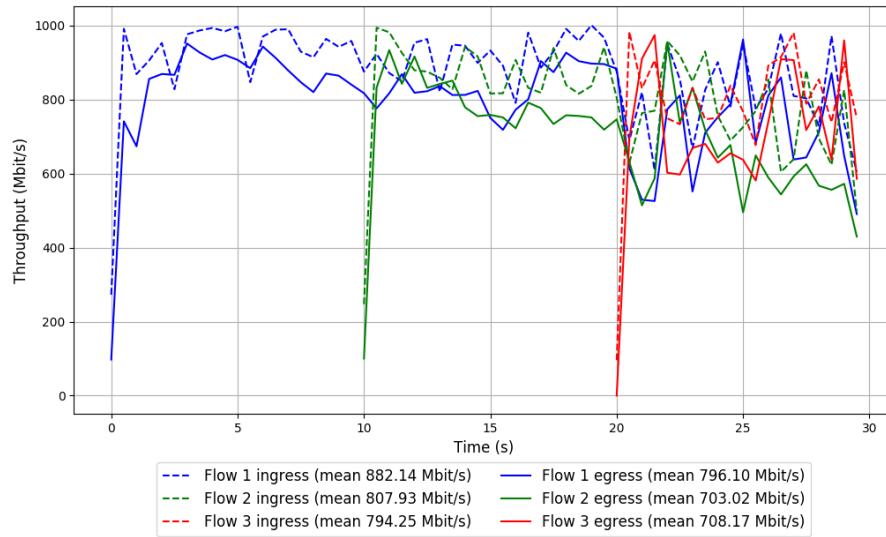
Run 4: Statistics of FillP

Start at: 2018-02-14 06:31:58

End at: 2018-02-14 06:32:28

```
# Below is generated by plot.py at 2018-02-14 12:58:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1495.79 Mbit/s
95th percentile per-packet one-way delay: 201.025 ms
Loss rate: 11.42%
-- Flow 1:
Average throughput: 796.10 Mbit/s
95th percentile per-packet one-way delay: 211.949 ms
Loss rate: 10.08%
-- Flow 2:
Average throughput: 703.02 Mbit/s
95th percentile per-packet one-way delay: 172.291 ms
Loss rate: 13.44%
-- Flow 3:
Average throughput: 708.17 Mbit/s
95th percentile per-packet one-way delay: 191.021 ms
Loss rate: 11.81%
```

Run 4: Report of FillP — Data Link



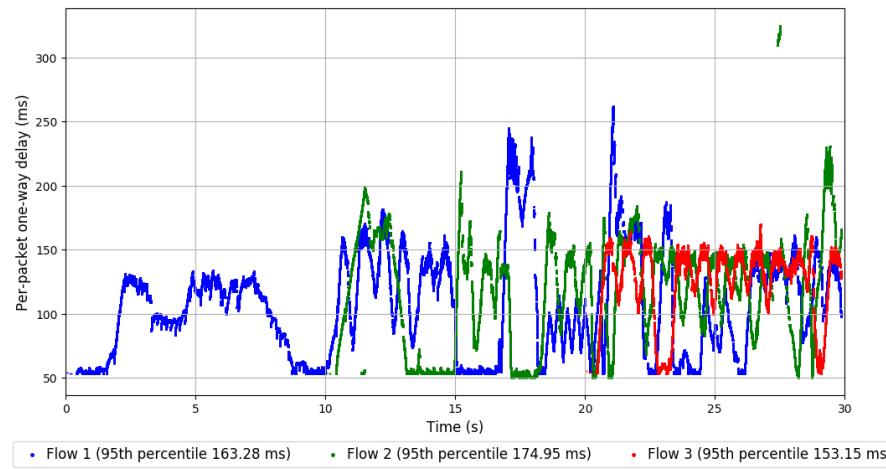
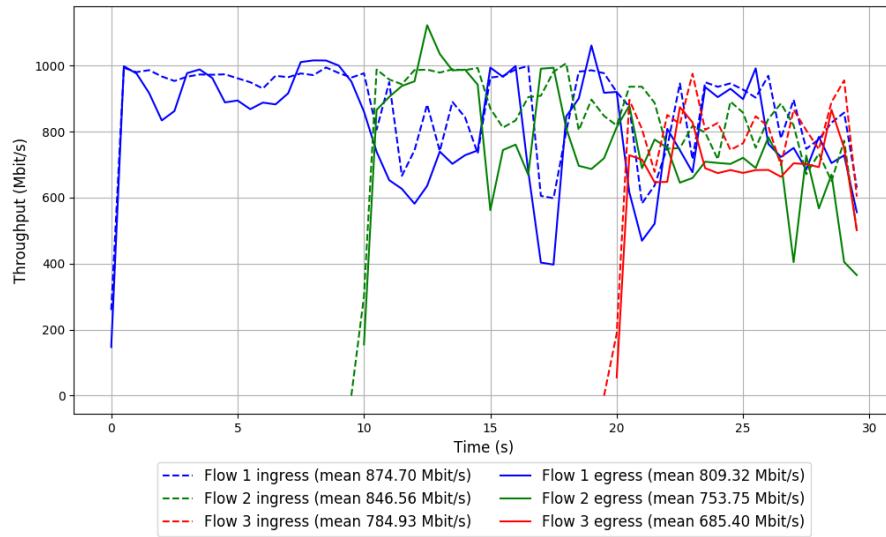
Run 5: Statistics of FillP

Start at: 2018-02-14 06:49:24

End at: 2018-02-14 06:49:54

```
# Below is generated by plot.py at 2018-02-14 12:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1536.19 Mbit/s
95th percentile per-packet one-way delay: 167.226 ms
Loss rate: 9.90%
-- Flow 1:
Average throughput: 809.32 Mbit/s
95th percentile per-packet one-way delay: 163.280 ms
Loss rate: 7.80%
-- Flow 2:
Average throughput: 753.75 Mbit/s
95th percentile per-packet one-way delay: 174.954 ms
Loss rate: 11.43%
-- Flow 3:
Average throughput: 685.40 Mbit/s
95th percentile per-packet one-way delay: 153.145 ms
Loss rate: 13.62%
```

Run 5: Report of FillP — Data Link



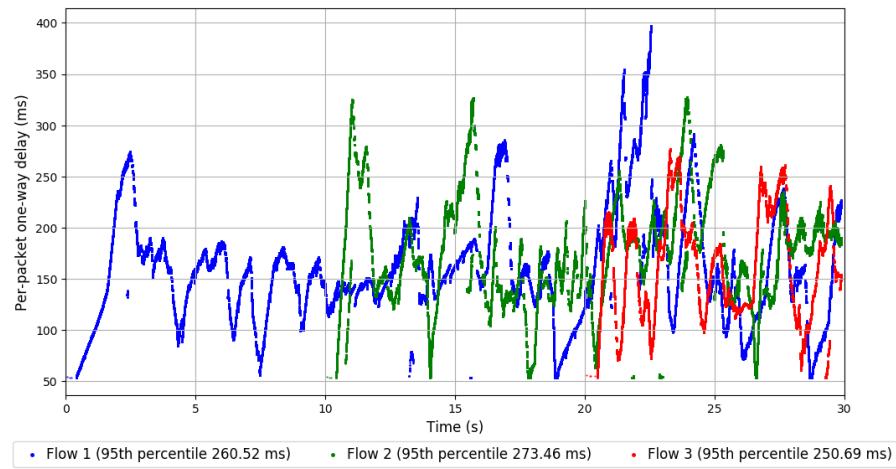
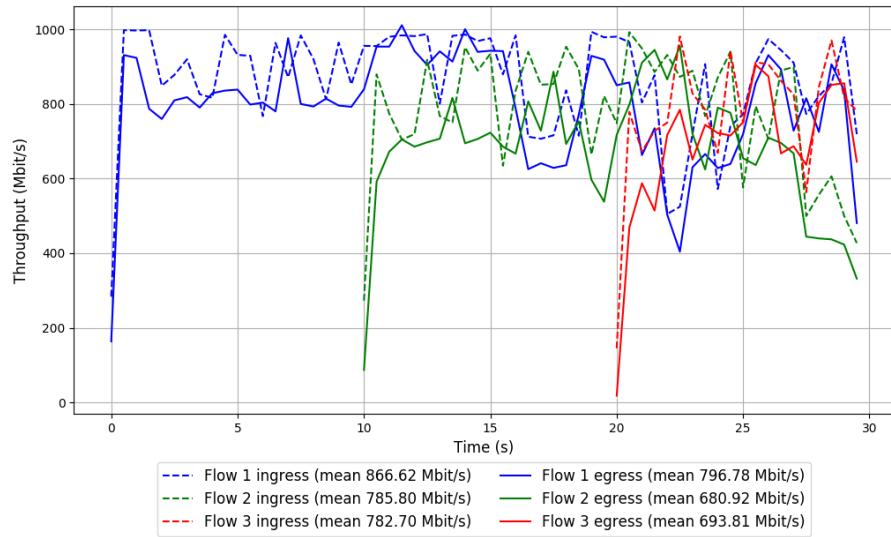
Run 6: Statistics of FillP

Start at: 2018-02-14 07:06:54

End at: 2018-02-14 07:07:24

```
# Below is generated by plot.py at 2018-02-14 12:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1477.11 Mbit/s
95th percentile per-packet one-way delay: 263.872 ms
Loss rate: 10.73%
-- Flow 1:
Average throughput: 796.78 Mbit/s
95th percentile per-packet one-way delay: 260.520 ms
Loss rate: 8.39%
-- Flow 2:
Average throughput: 680.92 Mbit/s
95th percentile per-packet one-way delay: 273.457 ms
Loss rate: 13.82%
-- Flow 3:
Average throughput: 693.81 Mbit/s
95th percentile per-packet one-way delay: 250.689 ms
Loss rate: 12.34%
```

Run 6: Report of FillP — Data Link



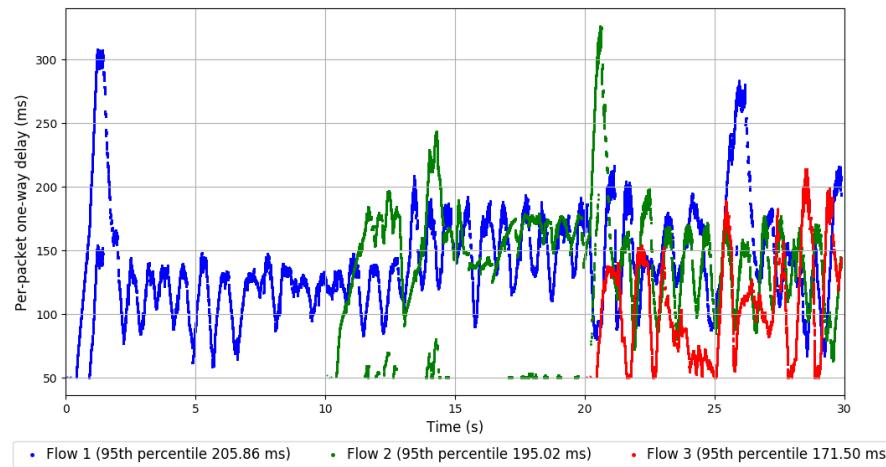
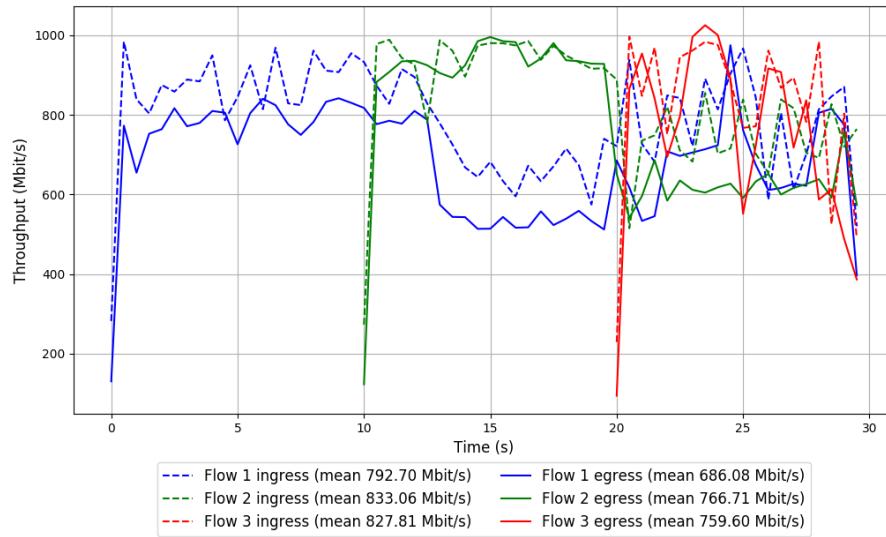
Run 7: Statistics of FillP

Start at: 2018-02-14 07:24:27

End at: 2018-02-14 07:24:57

```
# Below is generated by plot.py at 2018-02-14 12:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1445.19 Mbit/s
95th percentile per-packet one-way delay: 194.652 ms
Loss rate: 11.15%
-- Flow 1:
Average throughput: 686.08 Mbit/s
95th percentile per-packet one-way delay: 205.859 ms
Loss rate: 13.73%
-- Flow 2:
Average throughput: 766.71 Mbit/s
95th percentile per-packet one-way delay: 195.020 ms
Loss rate: 8.44%
-- Flow 3:
Average throughput: 759.60 Mbit/s
95th percentile per-packet one-way delay: 171.497 ms
Loss rate: 9.19%
```

Run 7: Report of FillP — Data Link



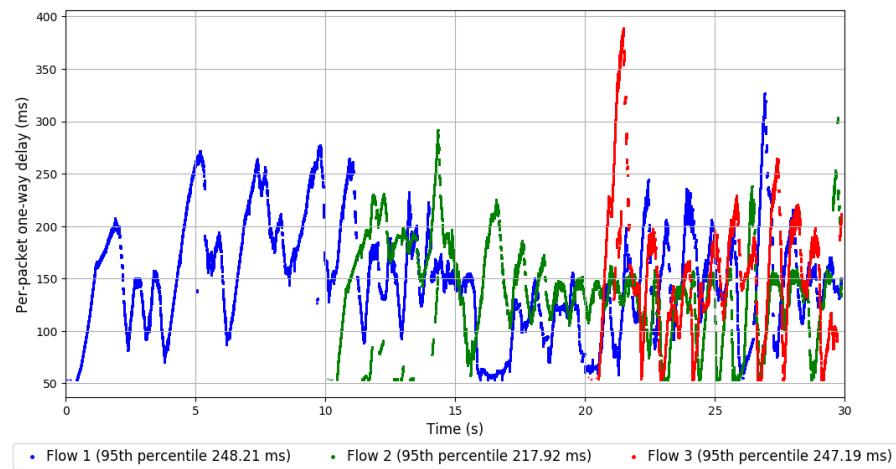
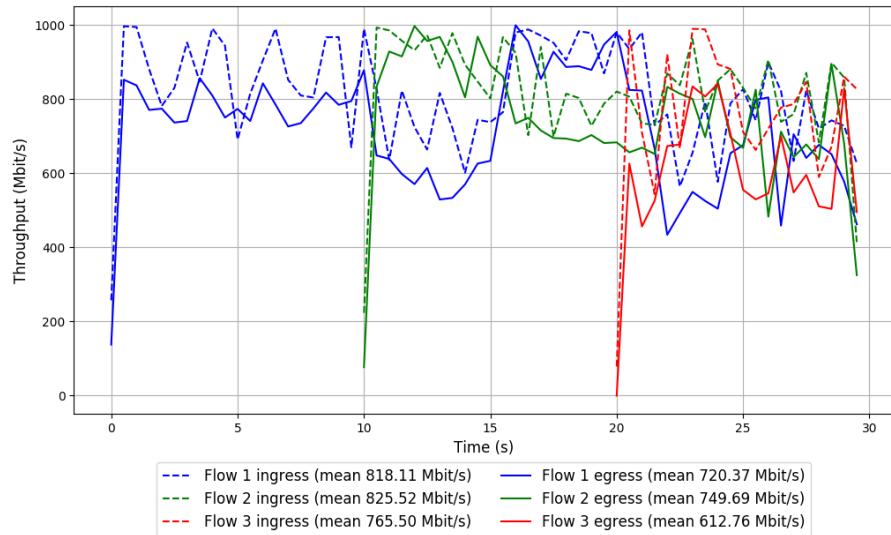
Run 8: Statistics of FillP

Start at: 2018-02-14 07:41:32

End at: 2018-02-14 07:42:02

```
# Below is generated by plot.py at 2018-02-14 12:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1418.50 Mbit/s
95th percentile per-packet one-way delay: 236.642 ms
Loss rate: 12.71%
-- Flow 1:
Average throughput: 720.37 Mbit/s
95th percentile per-packet one-way delay: 248.212 ms
Loss rate: 12.26%
-- Flow 2:
Average throughput: 749.69 Mbit/s
95th percentile per-packet one-way delay: 217.919 ms
Loss rate: 9.64%
-- Flow 3:
Average throughput: 612.76 Mbit/s
95th percentile per-packet one-way delay: 247.192 ms
Loss rate: 20.84%
```

Run 8: Report of FillP — Data Link



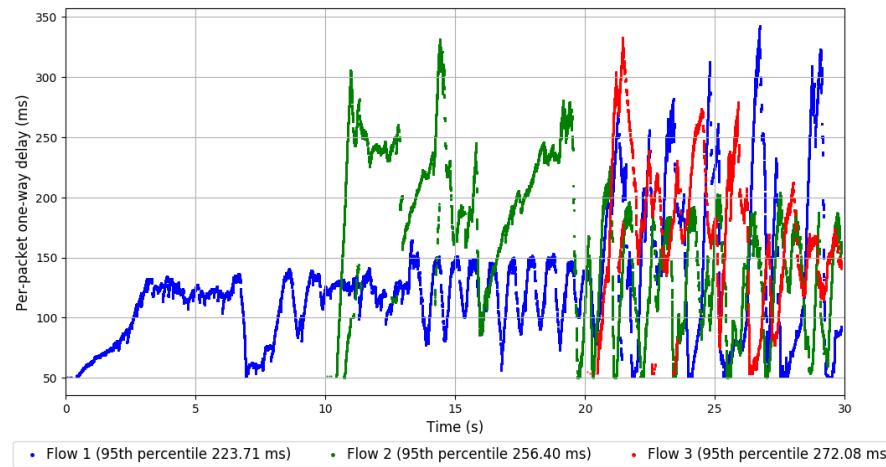
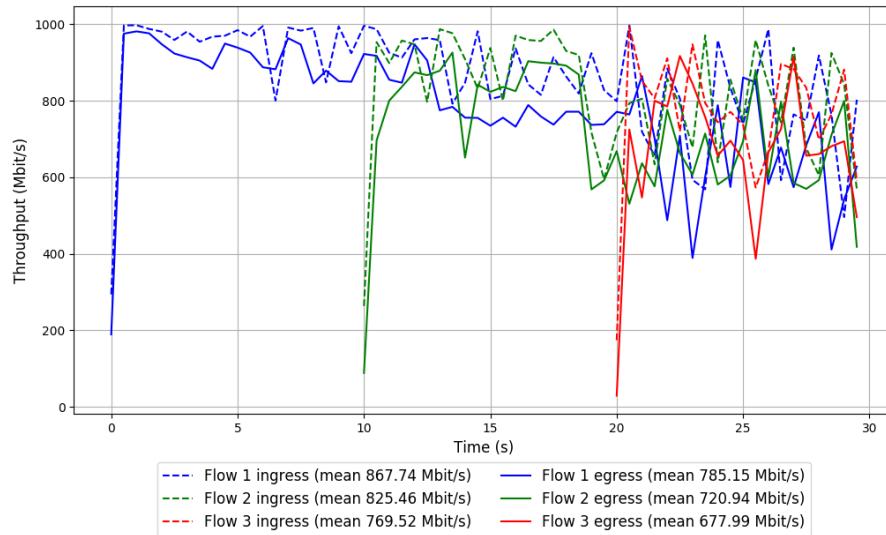
Run 9: Statistics of FillP

Start at: 2018-02-14 07:59:03

End at: 2018-02-14 07:59:33

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1486.77 Mbit/s
95th percentile per-packet one-way delay: 251.224 ms
Loss rate: 11.37%
-- Flow 1:
Average throughput: 785.15 Mbit/s
95th percentile per-packet one-way delay: 223.711 ms
Loss rate: 9.83%
-- Flow 2:
Average throughput: 720.94 Mbit/s
95th percentile per-packet one-way delay: 256.403 ms
Loss rate: 13.11%
-- Flow 3:
Average throughput: 677.99 Mbit/s
95th percentile per-packet one-way delay: 272.077 ms
Loss rate: 12.84%
```

Run 9: Report of FillP — Data Link

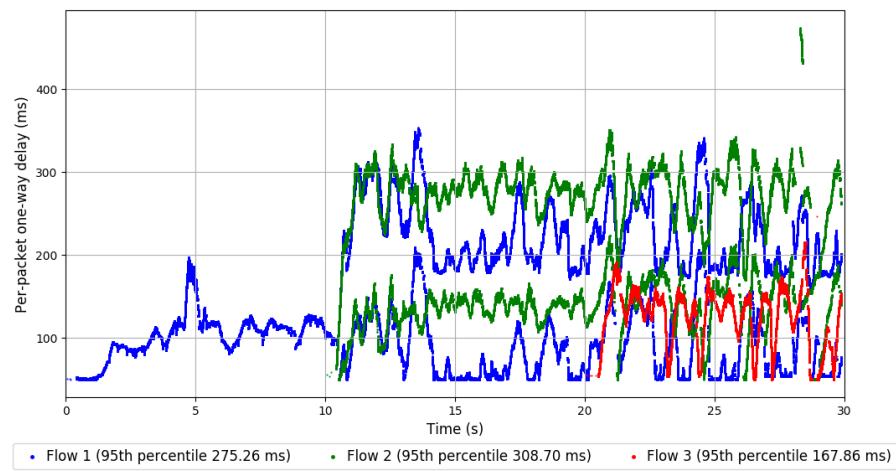
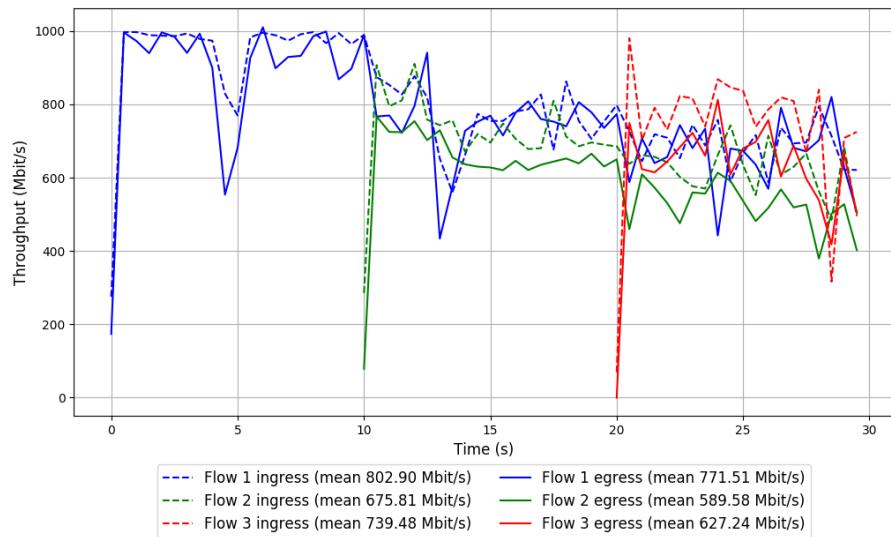


Run 10: Statistics of FillP

Start at: 2018-02-14 08:16:24
End at: 2018-02-14 08:16:54

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1368.83 Mbit/s
95th percentile per-packet one-way delay: 298.441 ms
Loss rate: 8.88%
-- Flow 1:
Average throughput: 771.51 Mbit/s
95th percentile per-packet one-way delay: 275.265 ms
Loss rate: 4.24%
-- Flow 2:
Average throughput: 589.58 Mbit/s
95th percentile per-packet one-way delay: 308.698 ms
Loss rate: 13.24%
-- Flow 3:
Average throughput: 627.24 Mbit/s
95th percentile per-packet one-way delay: 167.857 ms
Loss rate: 16.10%
```

Run 10: Report of FillP — Data Link

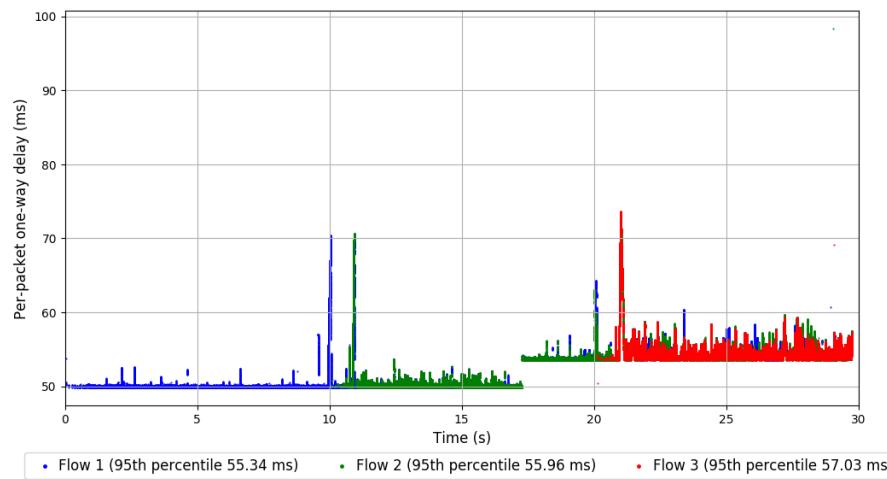
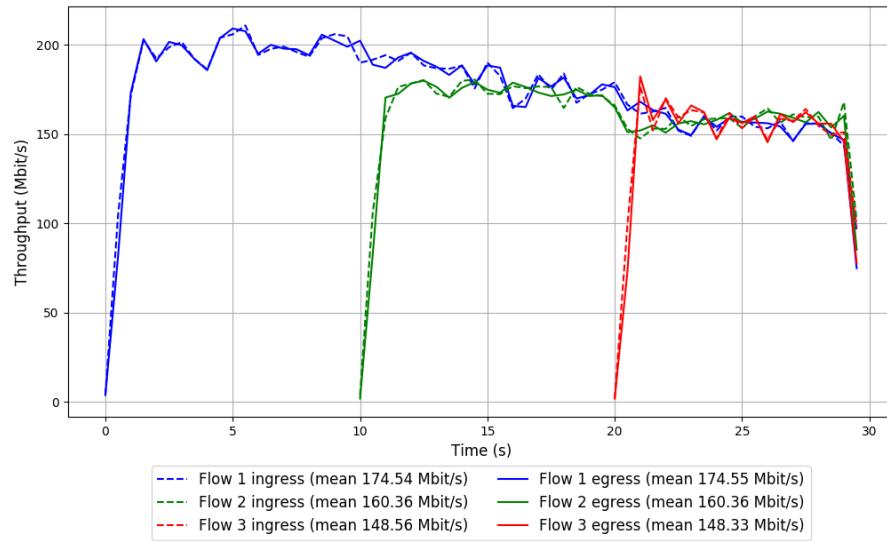


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-14 05:44:23
End at: 2018-02-14 05:44:53

# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.74 Mbit/s
95th percentile per-packet one-way delay: 55.891 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 174.55 Mbit/s
95th percentile per-packet one-way delay: 55.336 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 160.36 Mbit/s
95th percentile per-packet one-way delay: 55.964 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 148.33 Mbit/s
95th percentile per-packet one-way delay: 57.030 ms
Loss rate: 1.20%
```

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



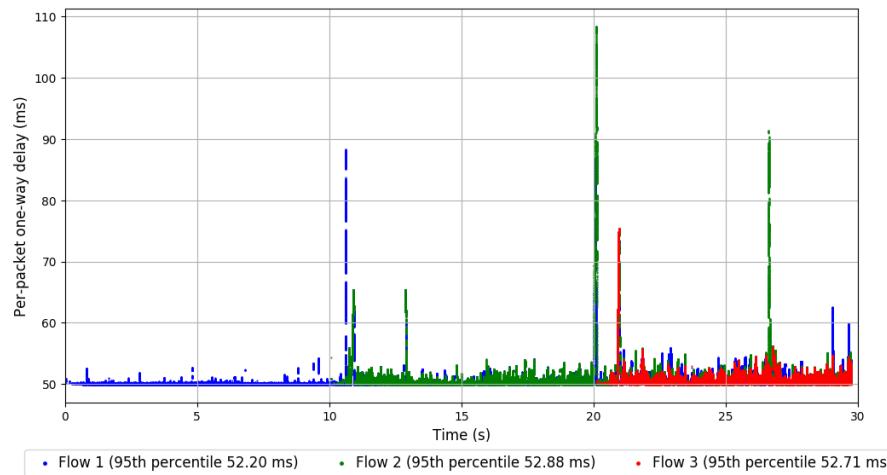
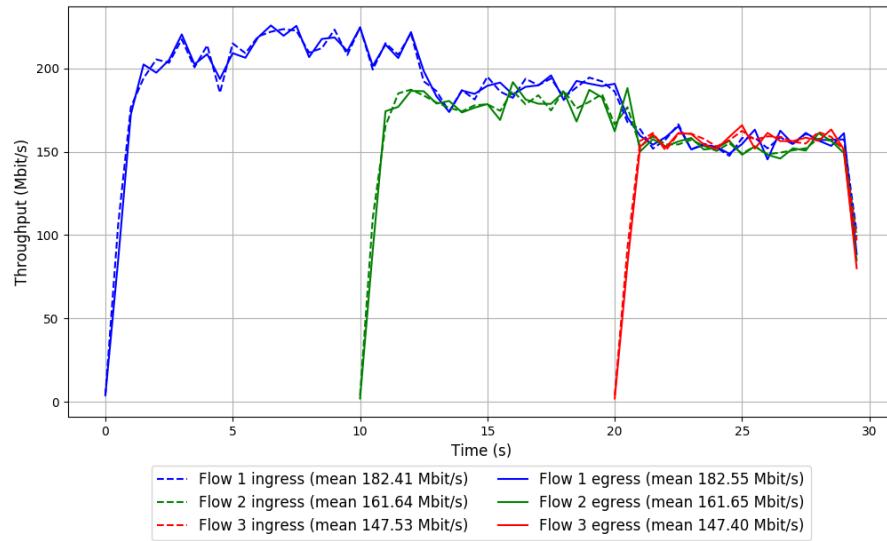
Run 2: Statistics of Indigo-1-32

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

End at: 2018-02-14 06:02:17

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.46 Mbit/s
95th percentile per-packet one-way delay: 52.514 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 182.55 Mbit/s
95th percentile per-packet one-way delay: 52.200 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 161.65 Mbit/s
95th percentile per-packet one-way delay: 52.883 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 147.40 Mbit/s
95th percentile per-packet one-way delay: 52.709 ms
Loss rate: 1.13%
```

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



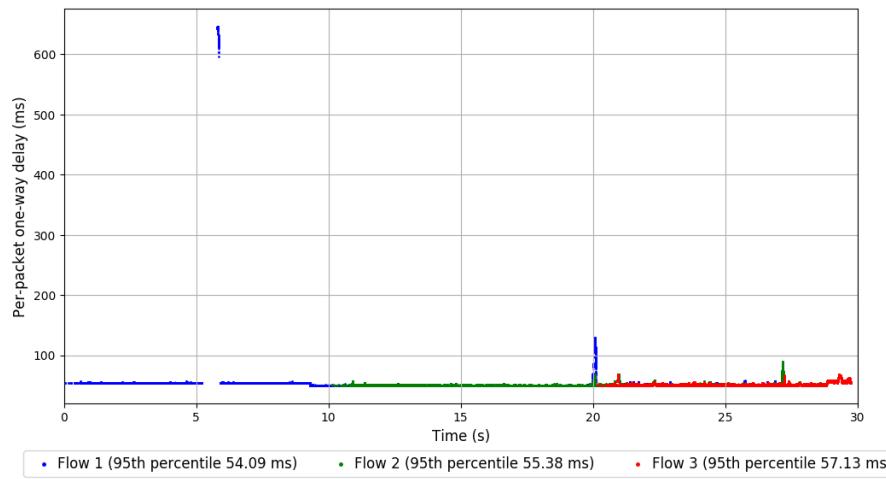
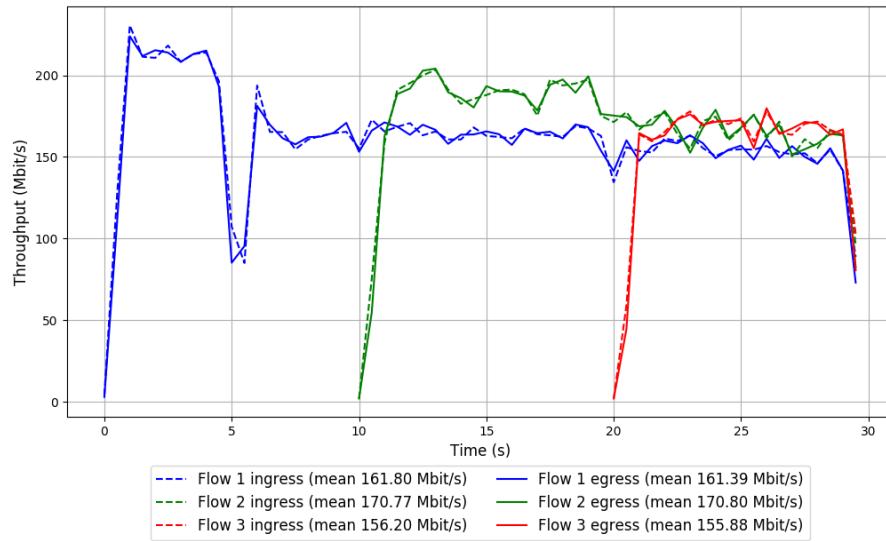
Run 3: Statistics of Indigo-1-32

Start at: 2018-02-14 06:19:11

End at: 2018-02-14 06:19:41

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.56 Mbit/s
95th percentile per-packet one-way delay: 55.263 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 161.39 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 170.80 Mbit/s
95th percentile per-packet one-way delay: 55.383 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 155.88 Mbit/s
95th percentile per-packet one-way delay: 57.129 ms
Loss rate: 1.26%
```

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



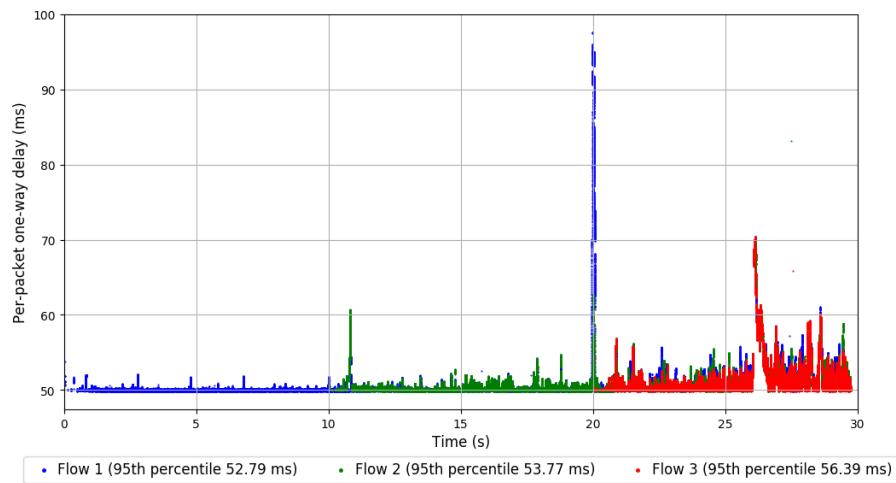
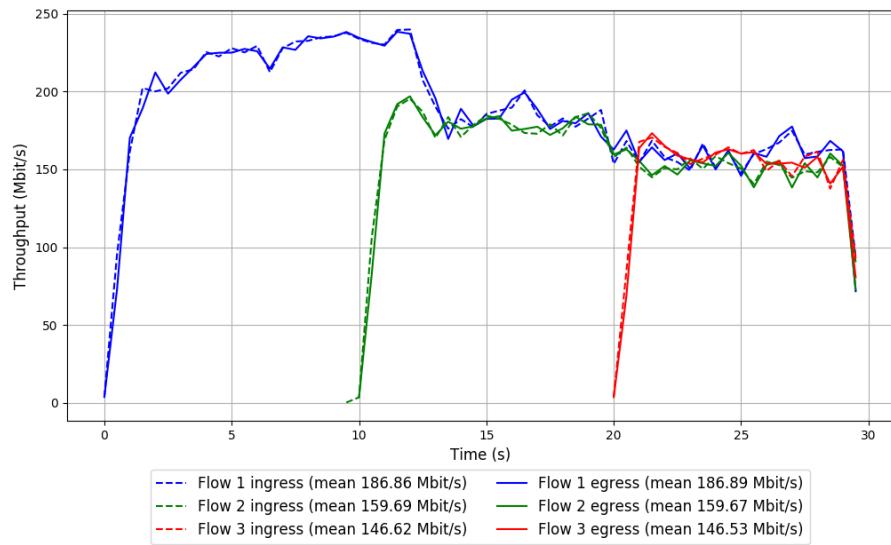
Run 4: Statistics of Indigo-1-32

Start at: 2018-02-14 06:36:33

End at: 2018-02-14 06:37:03

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.49 Mbit/s
95th percentile per-packet one-way delay: 53.701 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 186.89 Mbit/s
95th percentile per-packet one-way delay: 52.794 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 159.67 Mbit/s
95th percentile per-packet one-way delay: 53.772 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 146.53 Mbit/s
95th percentile per-packet one-way delay: 56.390 ms
Loss rate: 1.10%
```

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



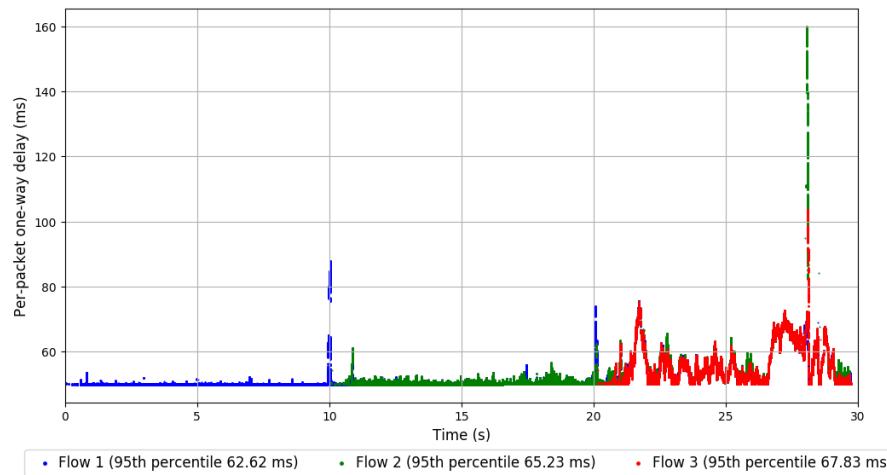
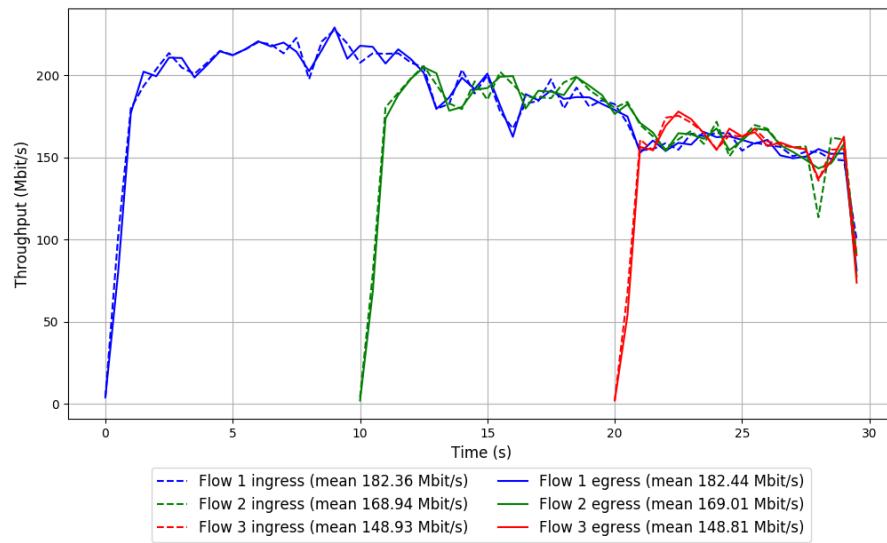
Run 5: Statistics of Indigo-1-32

Start at: 2018-02-14 06:54:00

End at: 2018-02-14 06:54:30

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.31 Mbit/s
95th percentile per-packet one-way delay: 65.226 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 182.44 Mbit/s
95th percentile per-packet one-way delay: 62.616 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 169.01 Mbit/s
95th percentile per-packet one-way delay: 65.229 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 148.81 Mbit/s
95th percentile per-packet one-way delay: 67.826 ms
Loss rate: 1.13%
```

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



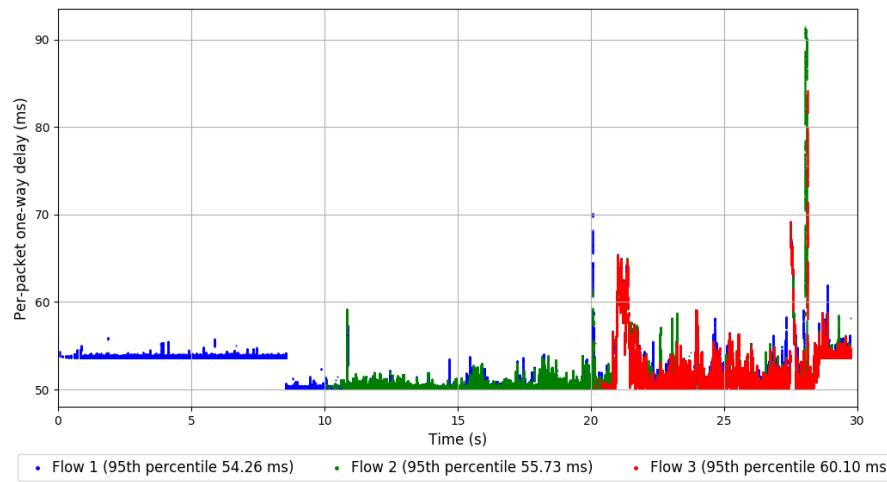
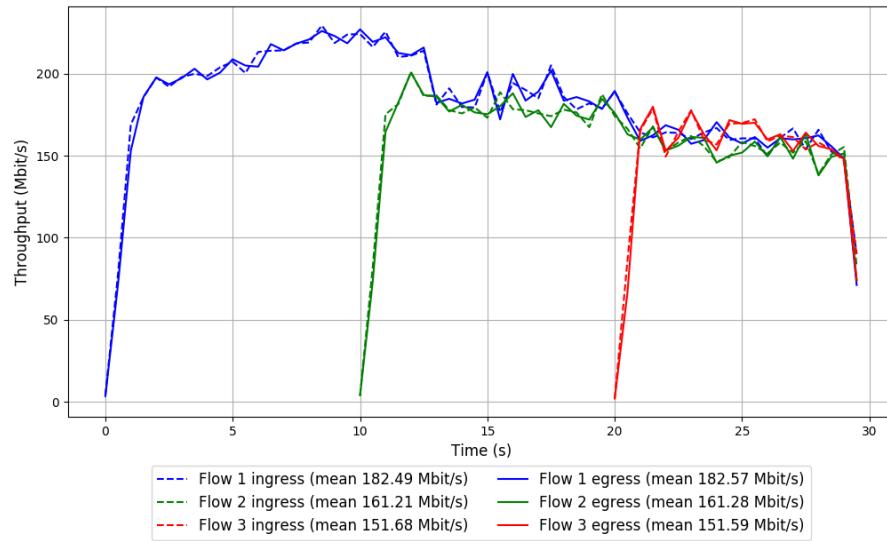
Run 6: Statistics of Indigo-1-32

Start at: 2018-02-14 07:11:32

End at: 2018-02-14 07:12:02

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.34 Mbit/s
95th percentile per-packet one-way delay: 55.343 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 182.57 Mbit/s
95th percentile per-packet one-way delay: 54.256 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 161.28 Mbit/s
95th percentile per-packet one-way delay: 55.729 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 151.59 Mbit/s
95th percentile per-packet one-way delay: 60.097 ms
Loss rate: 1.06%
```

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



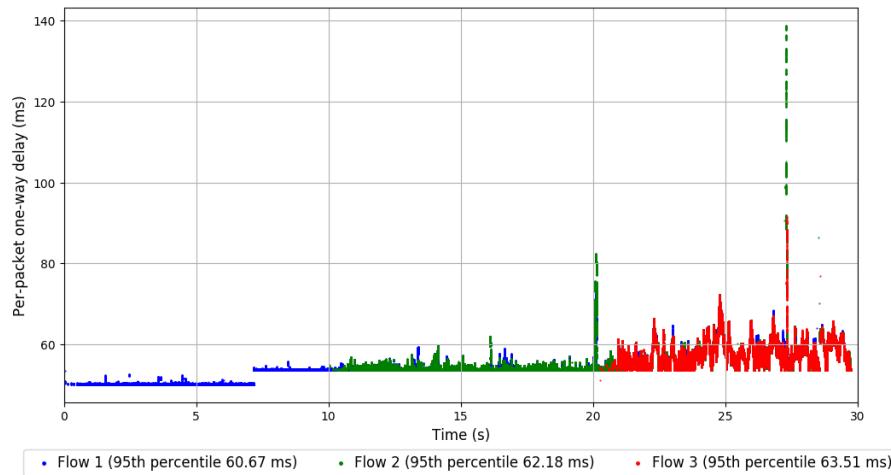
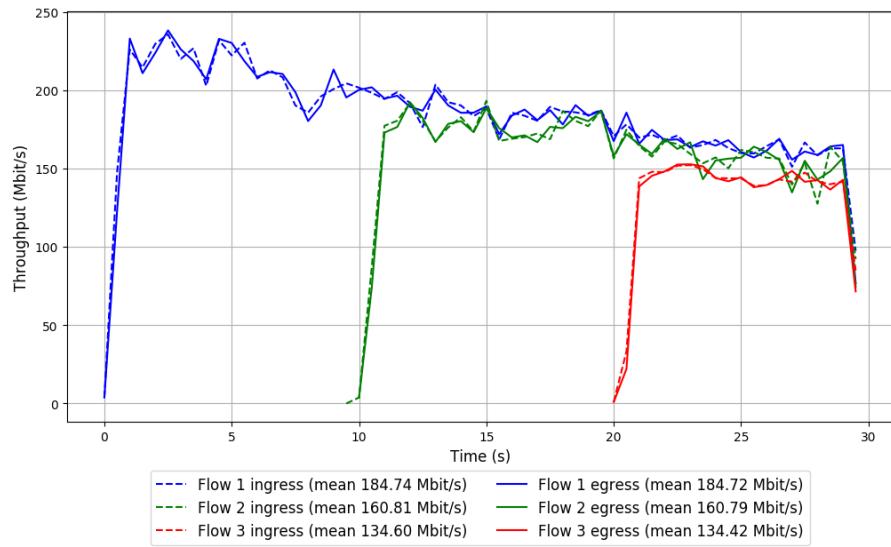
Run 7: Statistics of Indigo-1-32

Start at: 2018-02-14 07:29:03

End at: 2018-02-14 07:29:33

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.22 Mbit/s
95th percentile per-packet one-way delay: 61.858 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 184.72 Mbit/s
95th percentile per-packet one-way delay: 60.674 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 160.79 Mbit/s
95th percentile per-packet one-way delay: 62.184 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 134.42 Mbit/s
95th percentile per-packet one-way delay: 63.509 ms
Loss rate: 1.20%
```

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



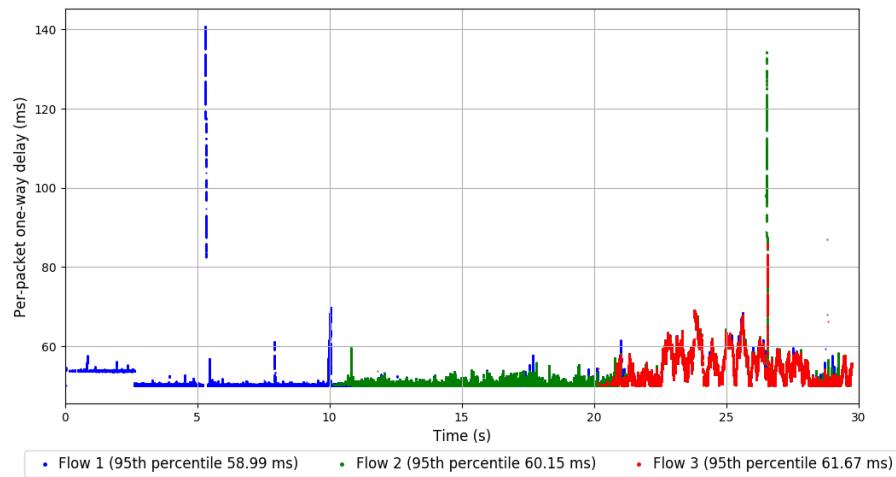
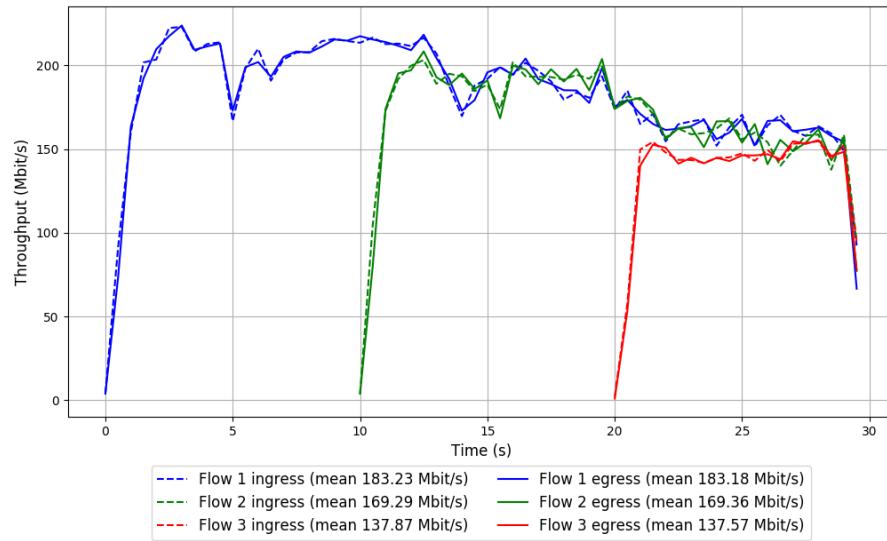
Run 8: Statistics of Indigo-1-32

Start at: 2018-02-14 07:46:08

End at: 2018-02-14 07:46:38

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.76 Mbit/s
95th percentile per-packet one-way delay: 60.138 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 183.18 Mbit/s
95th percentile per-packet one-way delay: 58.991 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 169.36 Mbit/s
95th percentile per-packet one-way delay: 60.147 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 137.57 Mbit/s
95th percentile per-packet one-way delay: 61.667 ms
Loss rate: 1.27%
```

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



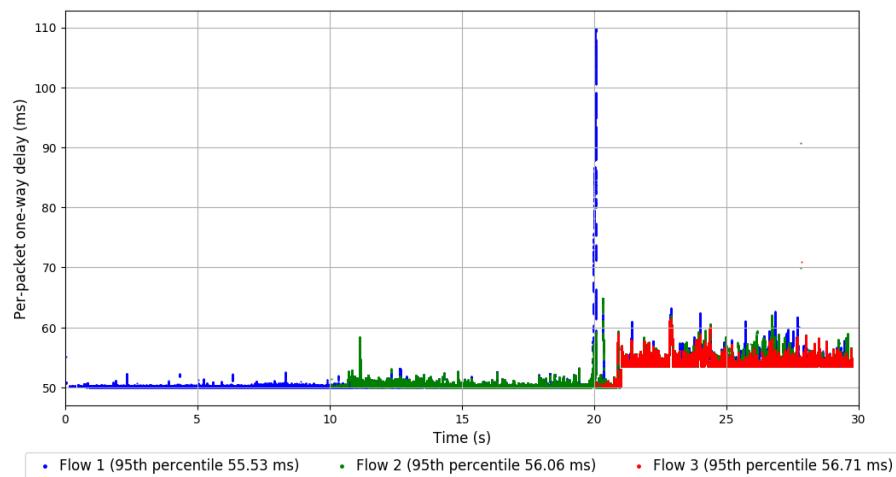
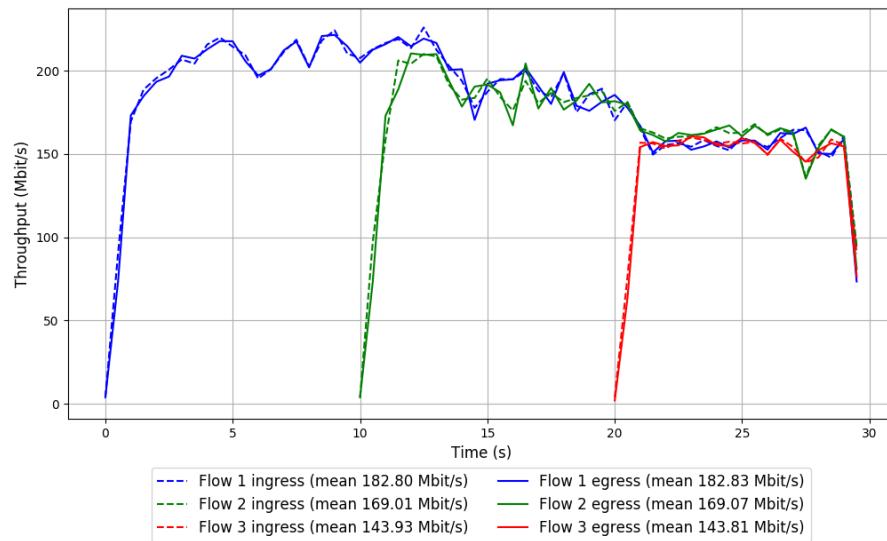
Run 9: Statistics of Indigo-1-32

Start at: 2018-02-14 08:03:39

End at: 2018-02-14 08:04:09

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.73 Mbit/s
95th percentile per-packet one-way delay: 55.956 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 182.83 Mbit/s
95th percentile per-packet one-way delay: 55.526 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 169.07 Mbit/s
95th percentile per-packet one-way delay: 56.061 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 143.81 Mbit/s
95th percentile per-packet one-way delay: 56.708 ms
Loss rate: 1.13%
```

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

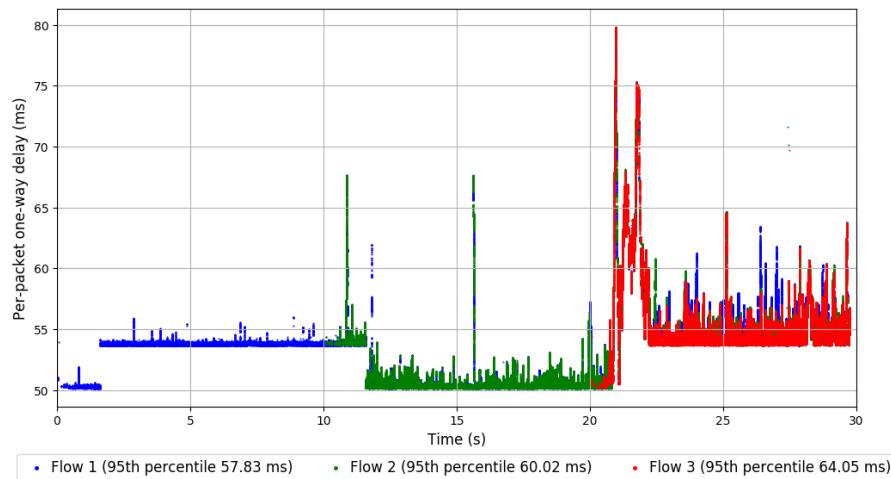
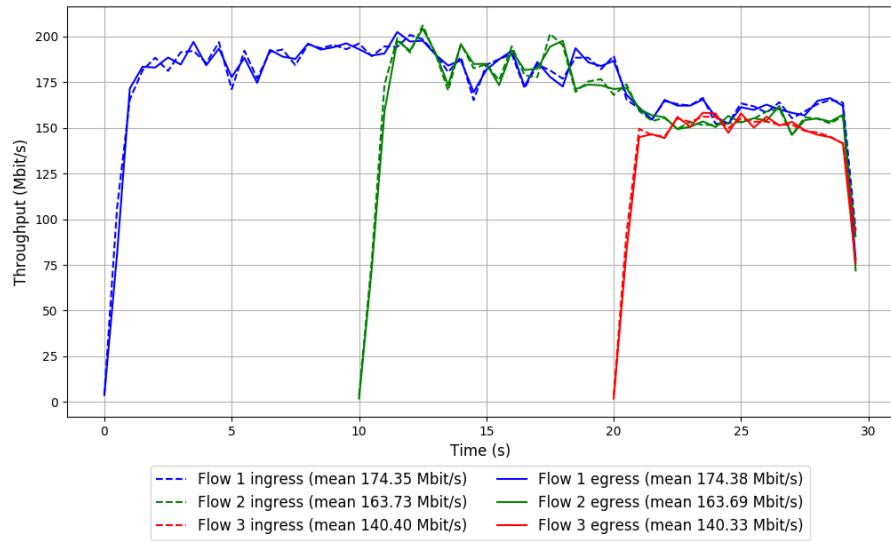


```
Run 10: Statistics of Indigo-1-32

Start at: 2018-02-14 08:20:59
End at: 2018-02-14 08:21:29

# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.42 Mbit/s
95th percentile per-packet one-way delay: 59.723 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 174.38 Mbit/s
95th percentile per-packet one-way delay: 57.827 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 163.69 Mbit/s
95th percentile per-packet one-way delay: 60.023 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 140.33 Mbit/s
95th percentile per-packet one-way delay: 64.050 ms
Loss rate: 1.13%
```

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



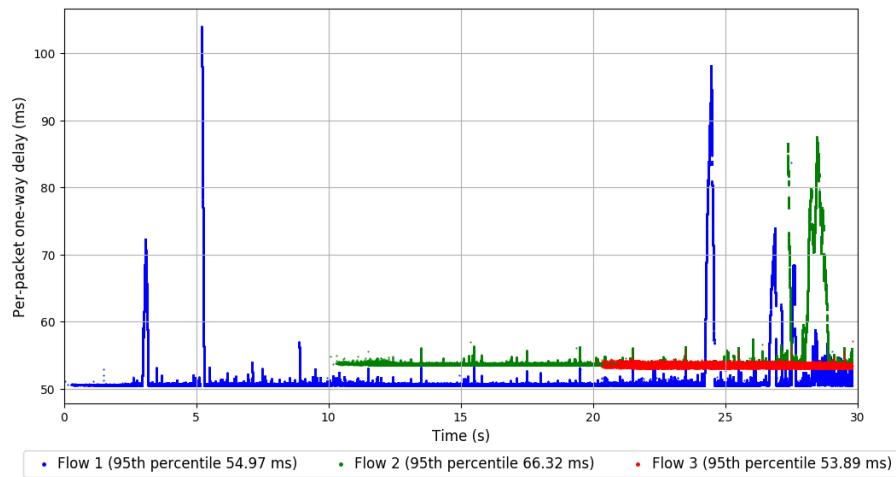
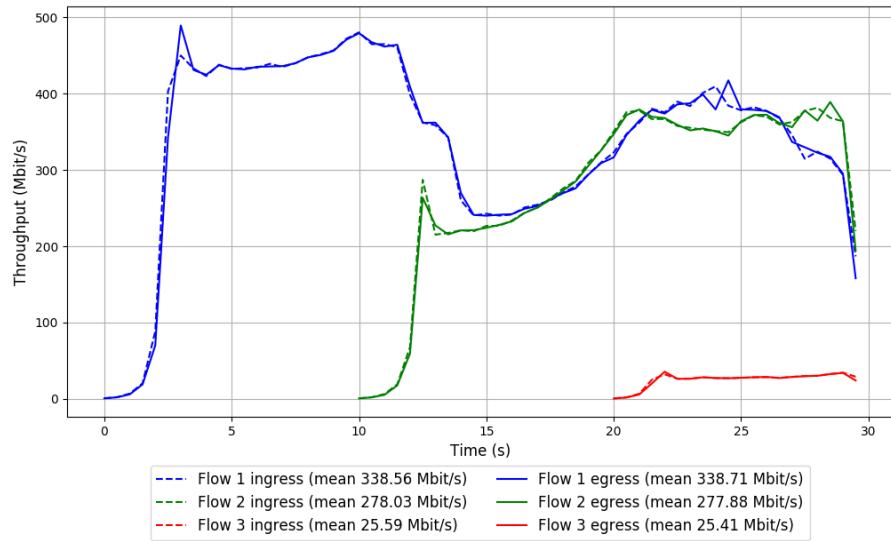
Run 1: Statistics of Vivace-latency

Start at: 2018-02-14 05:41:24

End at: 2018-02-14 05:41:54

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 531.30 Mbit/s
95th percentile per-packet one-way delay: 58.185 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 338.71 Mbit/s
95th percentile per-packet one-way delay: 54.973 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 277.88 Mbit/s
95th percentile per-packet one-way delay: 66.316 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 25.41 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 1.75%
```

Run 1: Report of Vivace-latency — Data Link



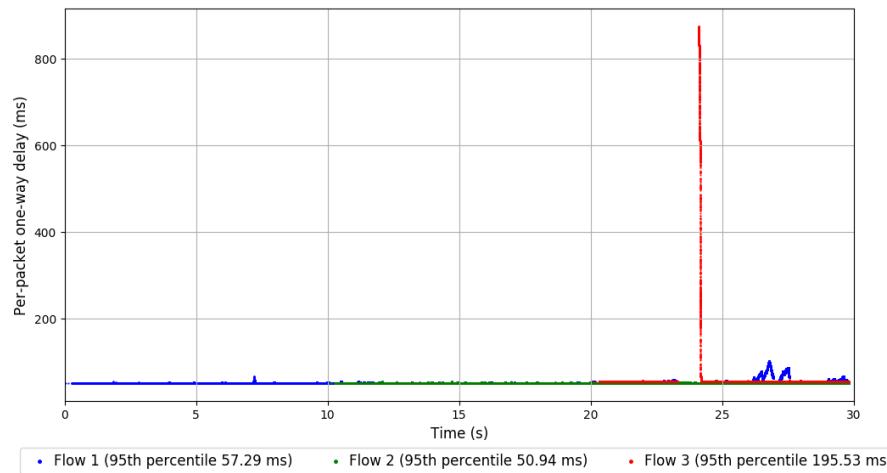
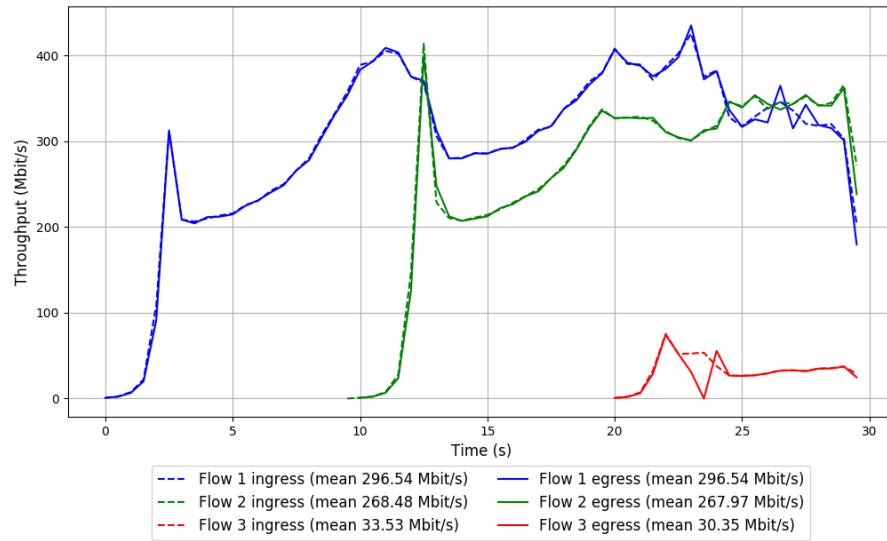
Run 2: Statistics of Vivace-latency

Start at: 2018-02-14 05:58:50

End at: 2018-02-14 05:59:20

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.37 Mbit/s
95th percentile per-packet one-way delay: 54.020 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 296.54 Mbit/s
95th percentile per-packet one-way delay: 57.291 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 267.97 Mbit/s
95th percentile per-packet one-way delay: 50.935 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 30.35 Mbit/s
95th percentile per-packet one-way delay: 195.535 ms
Loss rate: 10.46%
```

Run 2: Report of Vivace-latency — Data Link



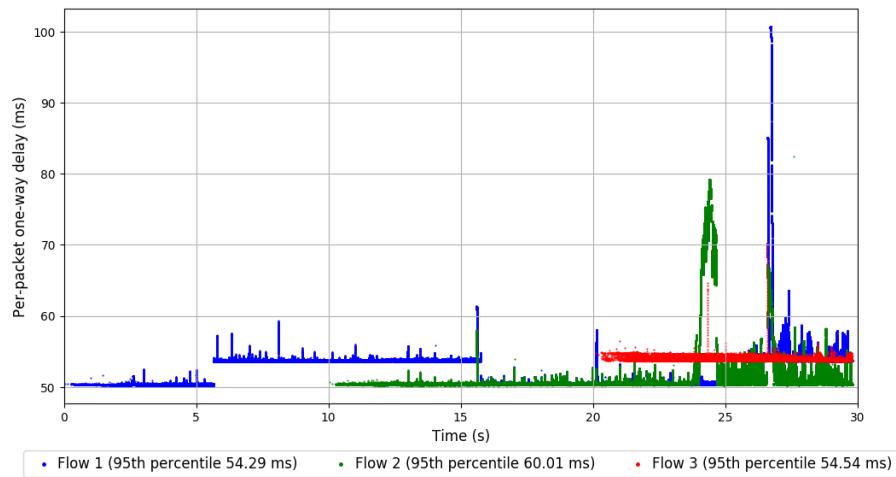
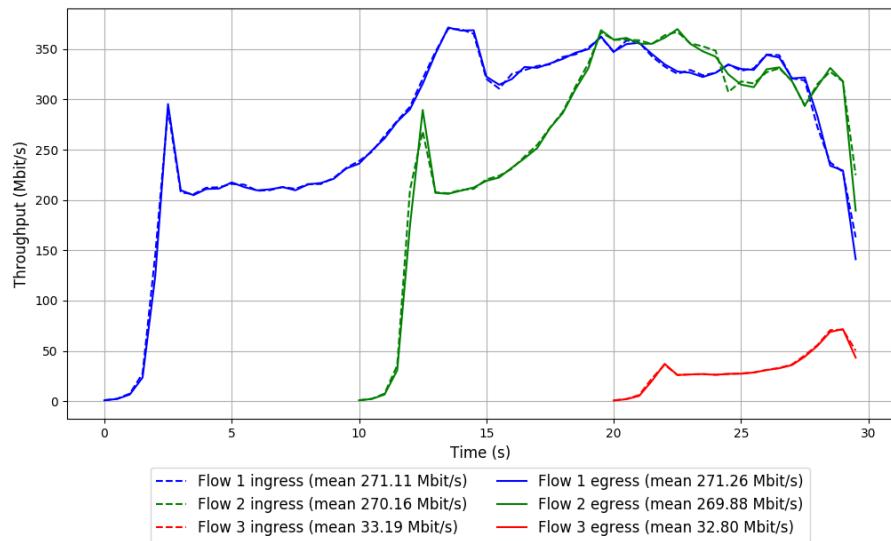
Run 3: Statistics of Vivace-latency

Start at: 2018-02-14 06:16:14

End at: 2018-02-14 06:16:45

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.10 Mbit/s
95th percentile per-packet one-way delay: 54.739 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 271.26 Mbit/s
95th percentile per-packet one-way delay: 54.292 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 269.88 Mbit/s
95th percentile per-packet one-way delay: 60.009 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 54.544 ms
Loss rate: 2.23%
```

Run 3: Report of Vivace-latency — Data Link



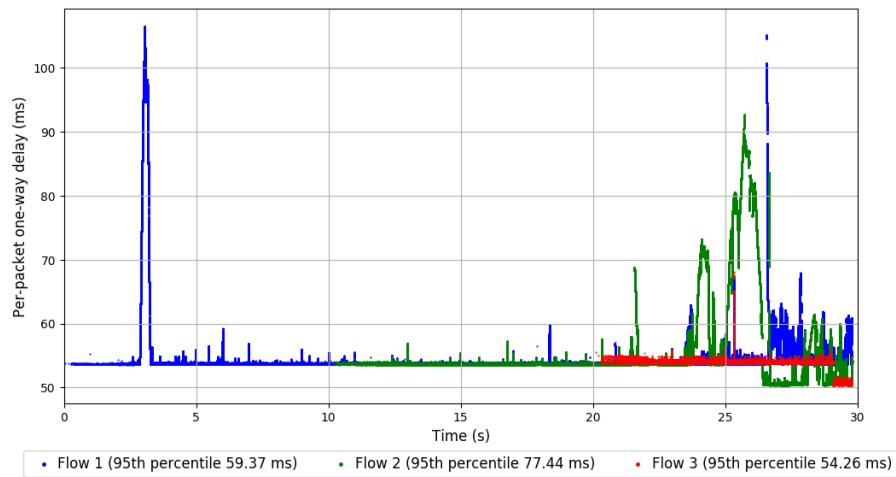
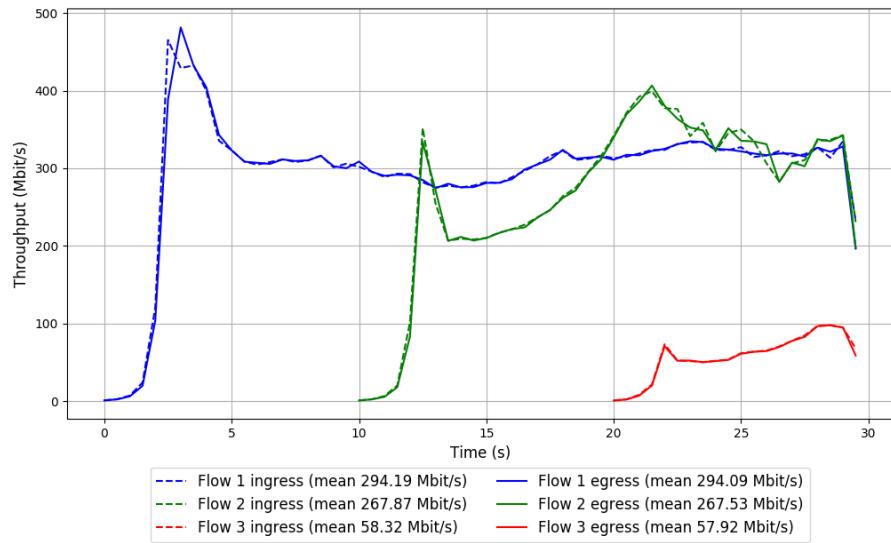
Run 4: Statistics of Vivace-latency

Start at: 2018-02-14 06:33:35

End at: 2018-02-14 06:34:05

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 490.38 Mbit/s
95th percentile per-packet one-way delay: 66.728 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 294.09 Mbit/s
95th percentile per-packet one-way delay: 59.374 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 267.53 Mbit/s
95th percentile per-packet one-way delay: 77.444 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 54.264 ms
Loss rate: 1.72%
```

Run 4: Report of Vivace-latency — Data Link



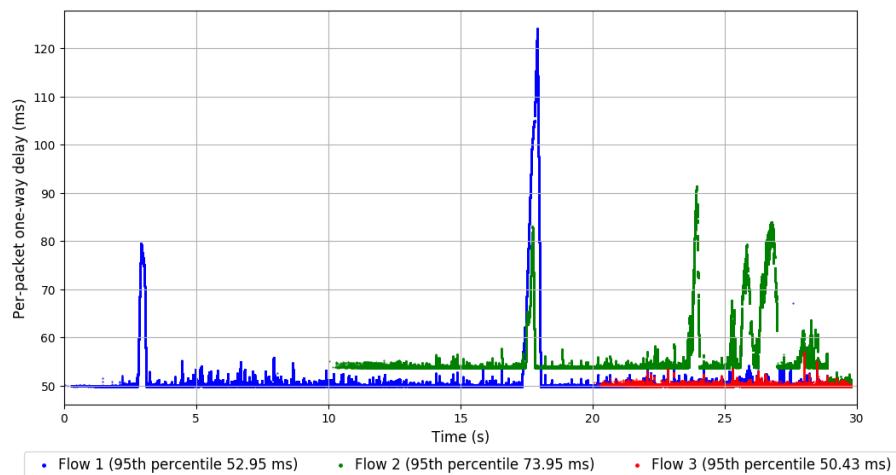
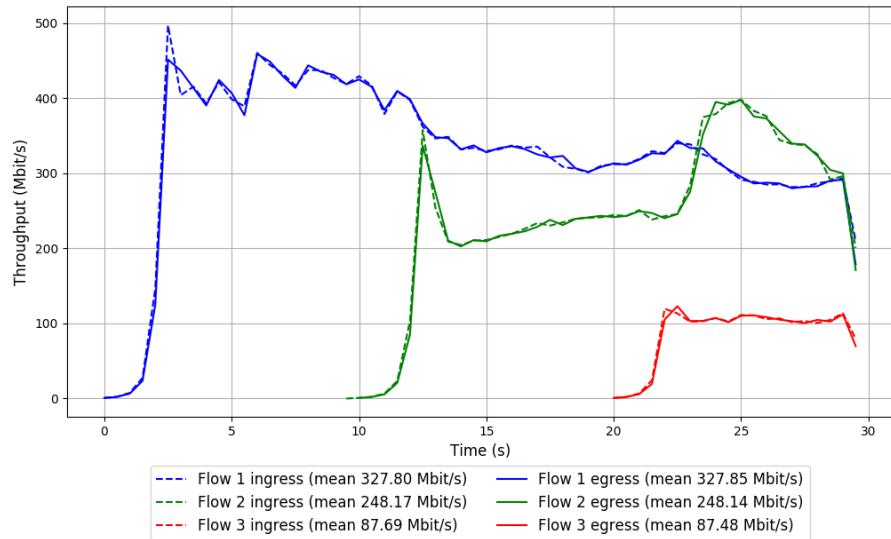
Run 5: Statistics of Vivace-latency

Start at: 2018-02-14 06:51:01

End at: 2018-02-14 06:51:31

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 521.12 Mbit/s
95th percentile per-packet one-way delay: 64.643 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 327.85 Mbit/s
95th percentile per-packet one-way delay: 52.948 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 248.14 Mbit/s
95th percentile per-packet one-way delay: 73.952 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 50.428 ms
Loss rate: 1.28%
```

Run 5: Report of Vivace-latency — Data Link



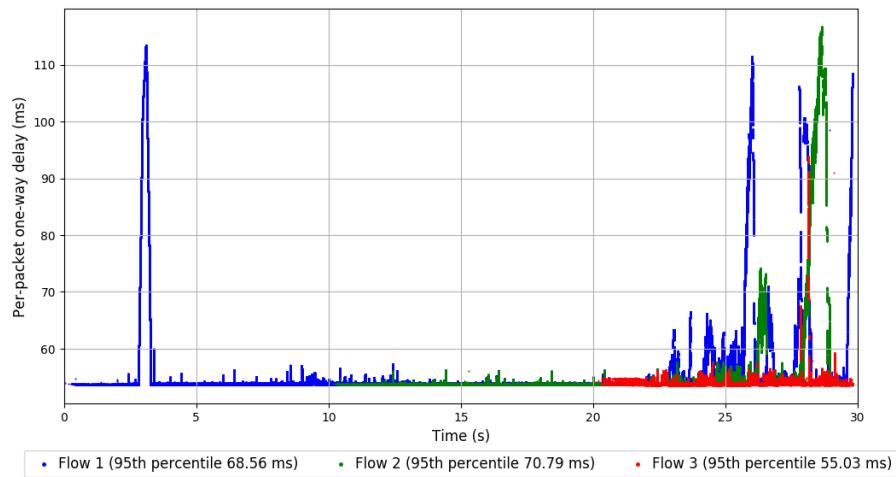
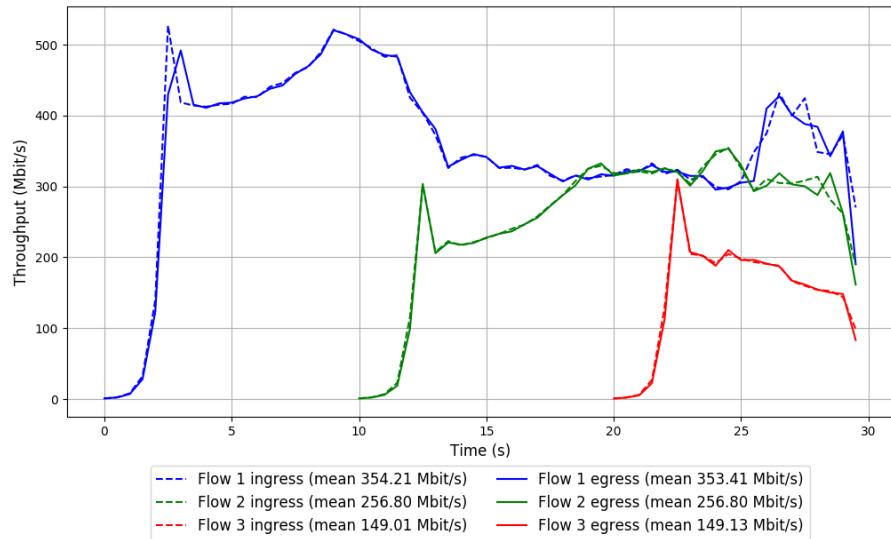
Run 6: Statistics of Vivace-latency

Start at: 2018-02-14 07:08:29

End at: 2018-02-14 07:08:59

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 572.45 Mbit/s
95th percentile per-packet one-way delay: 67.728 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 353.41 Mbit/s
95th percentile per-packet one-way delay: 68.559 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 256.80 Mbit/s
95th percentile per-packet one-way delay: 70.788 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 149.13 Mbit/s
95th percentile per-packet one-way delay: 55.031 ms
Loss rate: 0.99%
```

Run 6: Report of Vivace-latency — Data Link



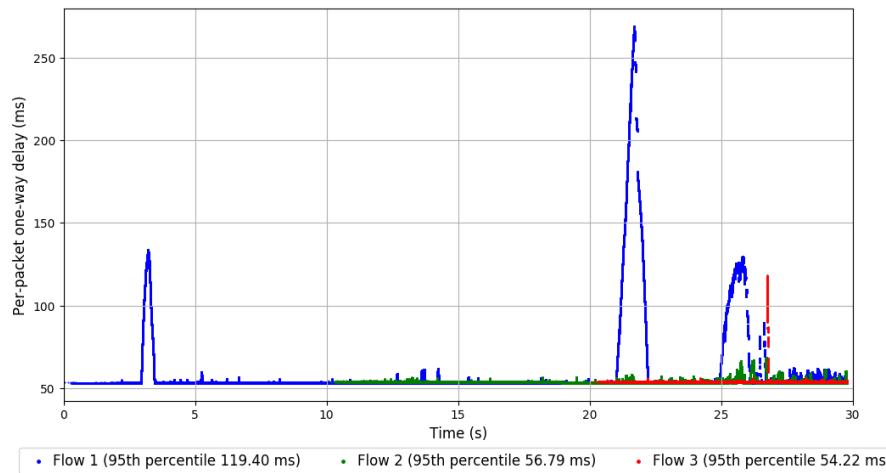
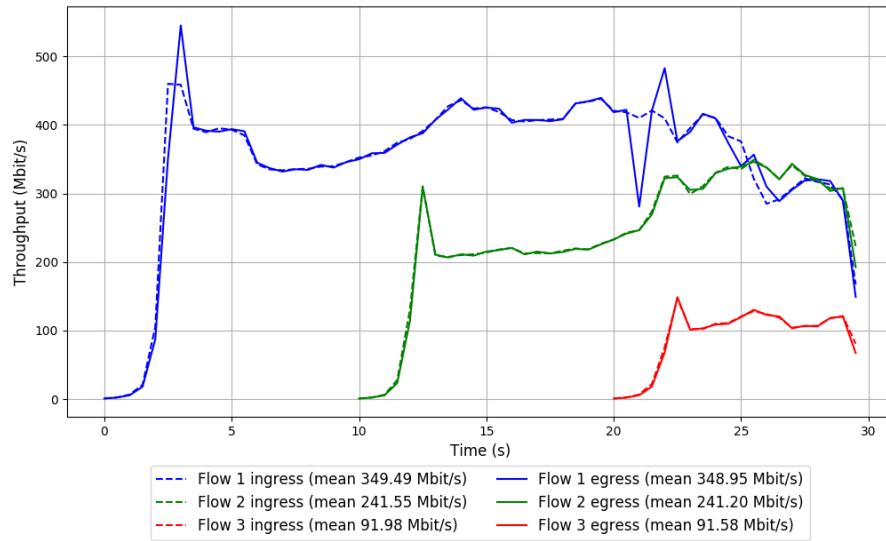
Run 7: Statistics of Vivace-latency

Start at: 2018-02-14 07:26:01

End at: 2018-02-14 07:26:31

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 538.82 Mbit/s
95th percentile per-packet one-way delay: 96.607 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 348.95 Mbit/s
95th percentile per-packet one-way delay: 119.396 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 241.20 Mbit/s
95th percentile per-packet one-way delay: 56.793 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 91.58 Mbit/s
95th percentile per-packet one-way delay: 54.221 ms
Loss rate: 1.49%
```

Run 7: Report of Vivace-latency — Data Link



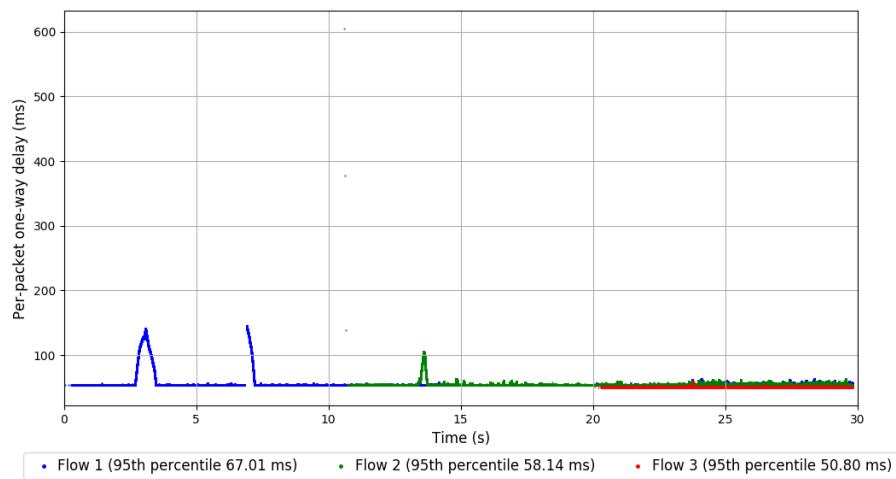
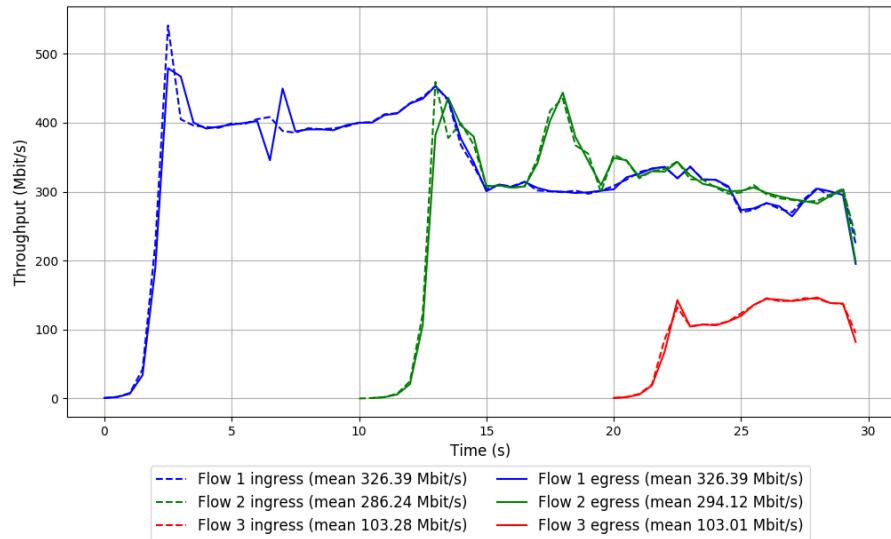
Run 8: Statistics of Vivace-latency

Start at: 2018-02-14 07:43:06

End at: 2018-02-14 07:43:36

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 549.84 Mbit/s
95th percentile per-packet one-way delay: 58.647 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 326.39 Mbit/s
95th percentile per-packet one-way delay: 67.007 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 294.12 Mbit/s
95th percentile per-packet one-way delay: 58.142 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 103.01 Mbit/s
95th percentile per-packet one-way delay: 50.803 ms
Loss rate: 1.30%
```

Run 8: Report of Vivace-latency — Data Link



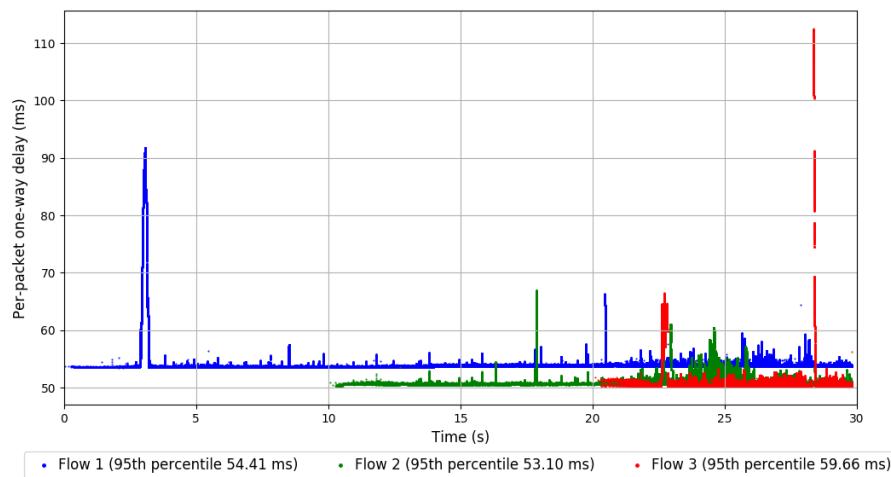
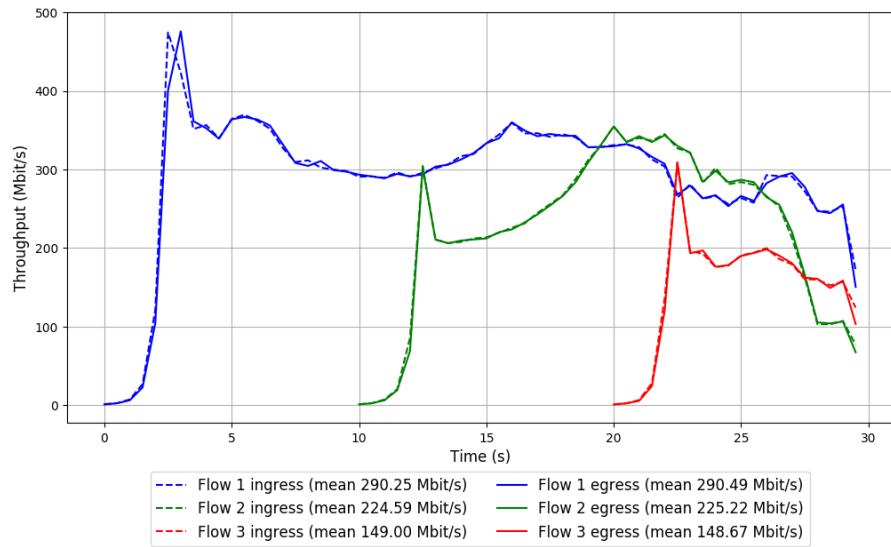
Run 9: Statistics of Vivace-latency

Start at: 2018-02-14 08:00:40

End at: 2018-02-14 08:01:10

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 488.47 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 290.49 Mbit/s
95th percentile per-packet one-way delay: 54.409 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 225.22 Mbit/s
95th percentile per-packet one-way delay: 53.096 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 148.67 Mbit/s
95th percentile per-packet one-way delay: 59.663 ms
Loss rate: 1.20%
```

Run 9: Report of Vivace-latency — Data Link



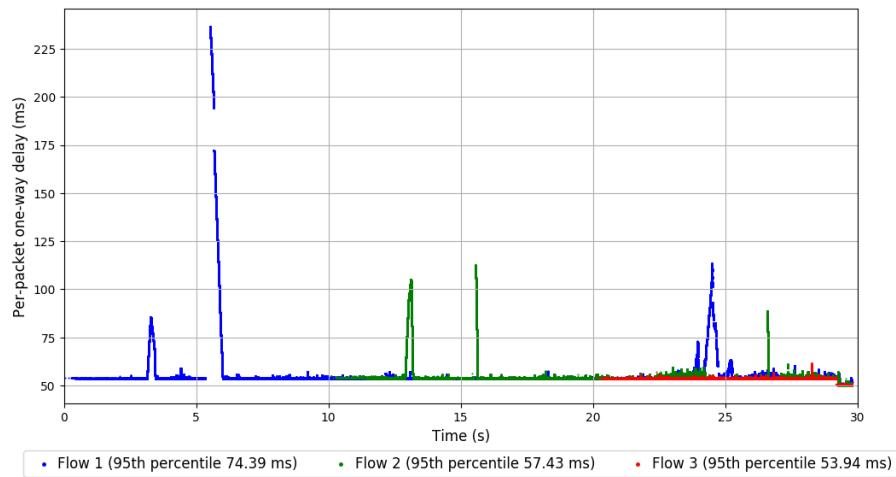
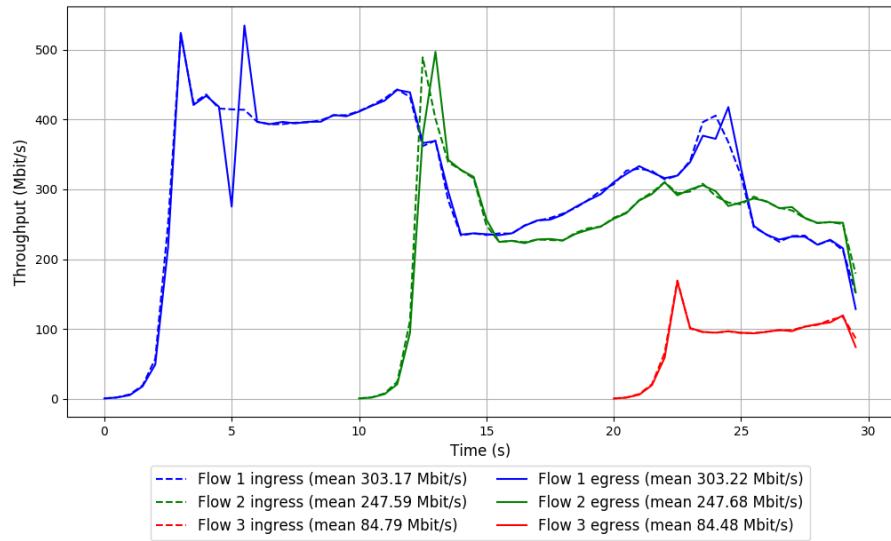
Run 10: Statistics of Vivace-latency

Start at: 2018-02-14 08:18:01

End at: 2018-02-14 08:18:31

```
# Below is generated by plot.py at 2018-02-14 13:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 495.13 Mbit/s
95th percentile per-packet one-way delay: 67.455 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 303.22 Mbit/s
95th percentile per-packet one-way delay: 74.389 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 247.68 Mbit/s
95th percentile per-packet one-way delay: 57.429 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 53.942 ms
Loss rate: 1.47%
```

Run 10: Report of Vivace-latency — Data Link

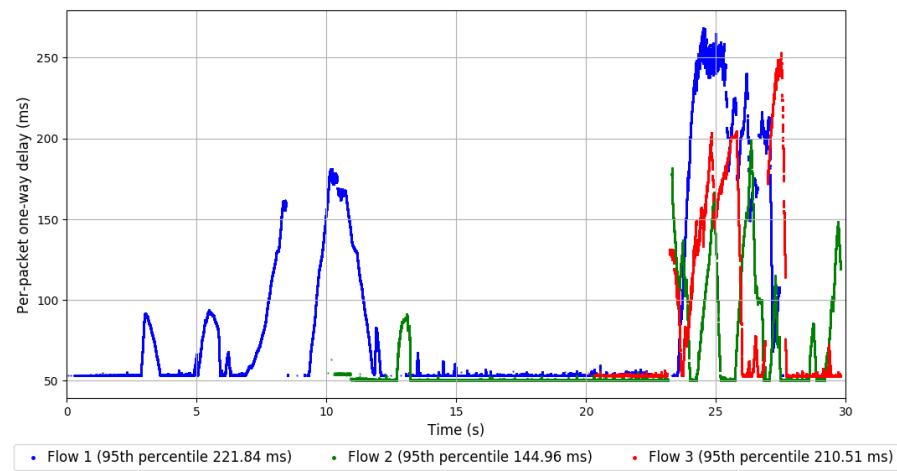
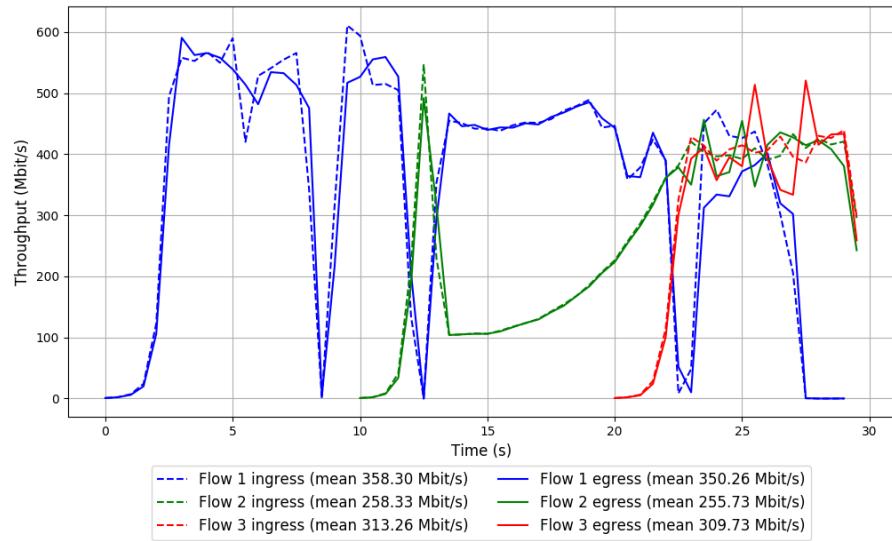


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-14 05:35:49
End at: 2018-02-14 05:36:19

# Below is generated by plot.py at 2018-02-14 13:28:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 616.58 Mbit/s
95th percentile per-packet one-way delay: 203.044 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 350.26 Mbit/s
95th percentile per-packet one-way delay: 221.845 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 255.73 Mbit/s
95th percentile per-packet one-way delay: 144.956 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 309.73 Mbit/s
95th percentile per-packet one-way delay: 210.509 ms
Loss rate: 2.20%
```

Run 1: Report of Vivace-loss — Data Link



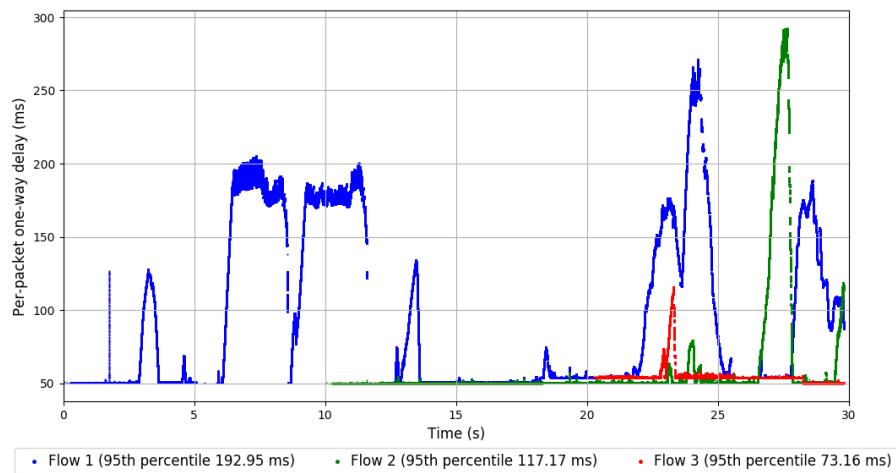
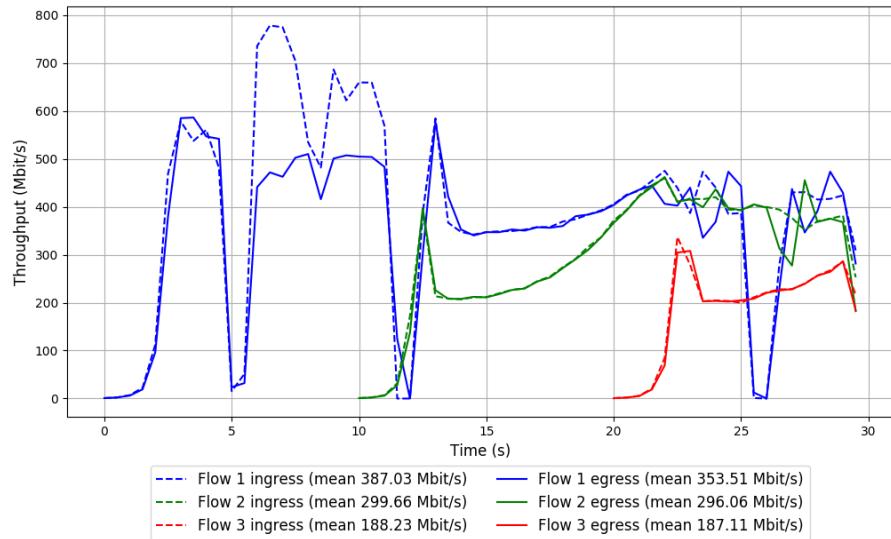
Run 2: Statistics of Vivace-loss

Start at: 2018-02-14 05:53:12

End at: 2018-02-14 05:53:42

```
# Below is generated by plot.py at 2018-02-14 13:30:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 611.08 Mbit/s
95th percentile per-packet one-way delay: 189.156 ms
Loss rate: 6.04%
-- Flow 1:
Average throughput: 353.51 Mbit/s
95th percentile per-packet one-way delay: 192.953 ms
Loss rate: 8.97%
-- Flow 2:
Average throughput: 296.06 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 187.11 Mbit/s
95th percentile per-packet one-way delay: 73.156 ms
Loss rate: 1.66%
```

Run 2: Report of Vivace-loss — Data Link



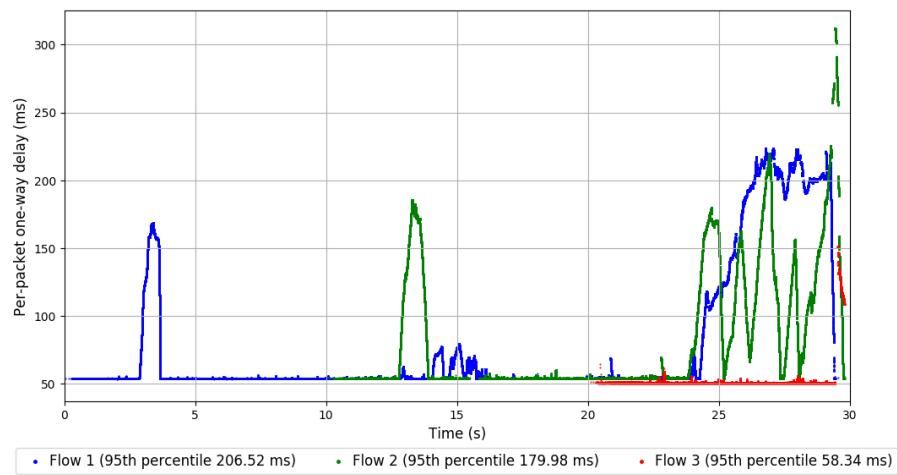
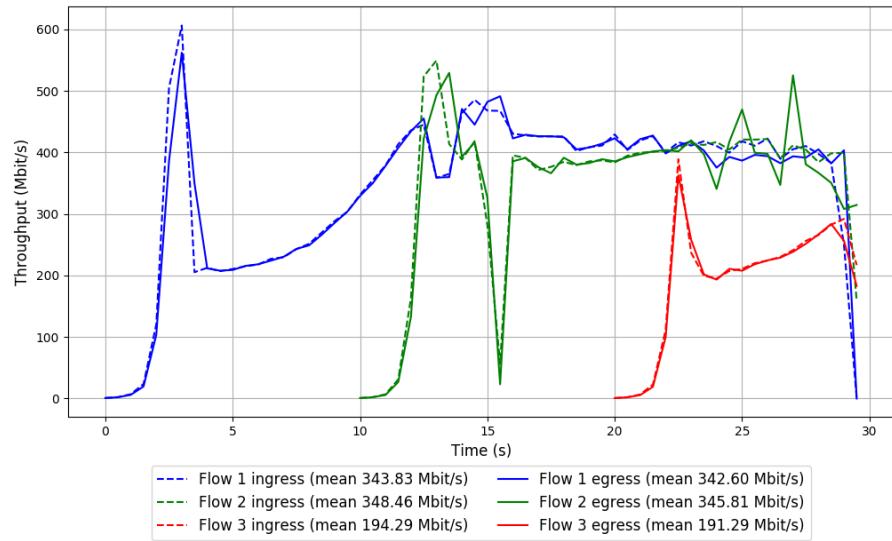
Run 3: Statistics of Vivace-loss

Start at: 2018-02-14 06:10:37

End at: 2018-02-14 06:11:07

```
# Below is generated by plot.py at 2018-02-14 13:34:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 631.74 Mbit/s
95th percentile per-packet one-way delay: 201.599 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 342.60 Mbit/s
95th percentile per-packet one-way delay: 206.516 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 345.81 Mbit/s
95th percentile per-packet one-way delay: 179.980 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 191.29 Mbit/s
95th percentile per-packet one-way delay: 58.341 ms
Loss rate: 2.57%
```

Run 3: Report of Vivace-loss — Data Link



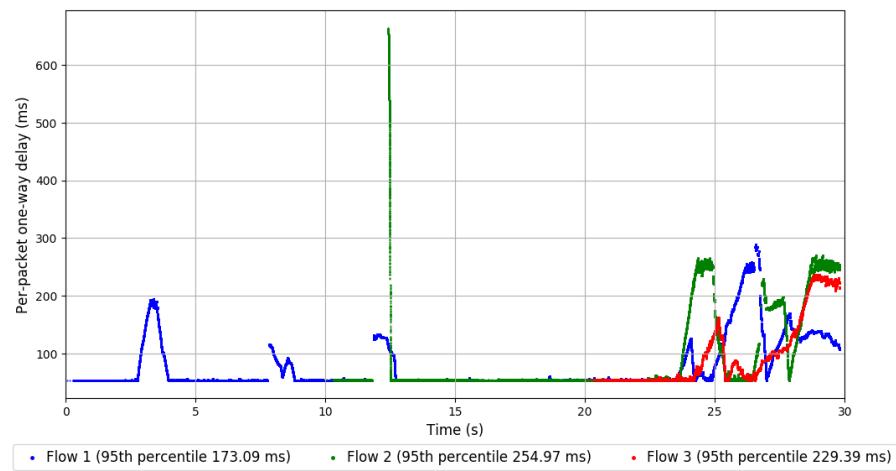
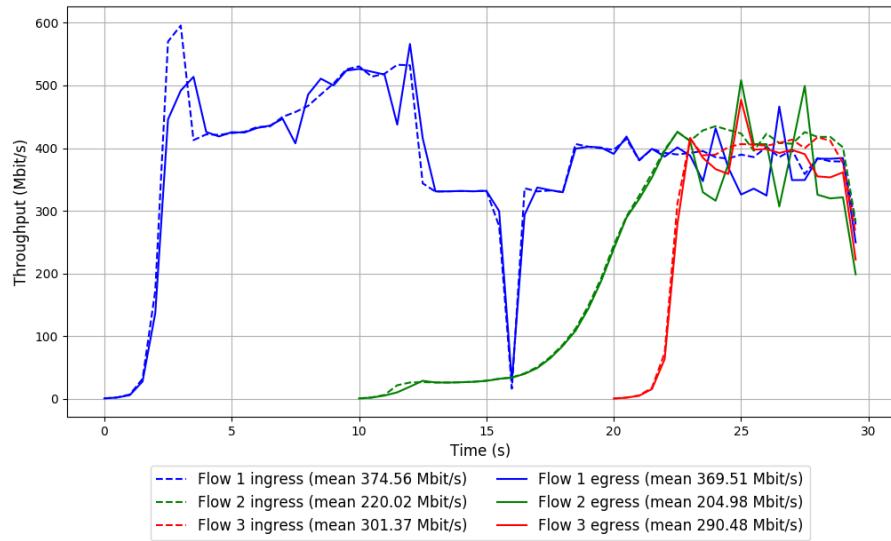
Run 4: Statistics of Vivace-loss

Start at: 2018-02-14 06:28:05

End at: 2018-02-14 06:28:35

```
# Below is generated by plot.py at 2018-02-14 13:34:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 600.21 Mbit/s
95th percentile per-packet one-way delay: 232.502 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 369.51 Mbit/s
95th percentile per-packet one-way delay: 173.090 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 204.98 Mbit/s
95th percentile per-packet one-way delay: 254.975 ms
Loss rate: 7.33%
-- Flow 3:
Average throughput: 290.48 Mbit/s
95th percentile per-packet one-way delay: 229.386 ms
Loss rate: 4.66%
```

Run 4: Report of Vivace-loss — Data Link



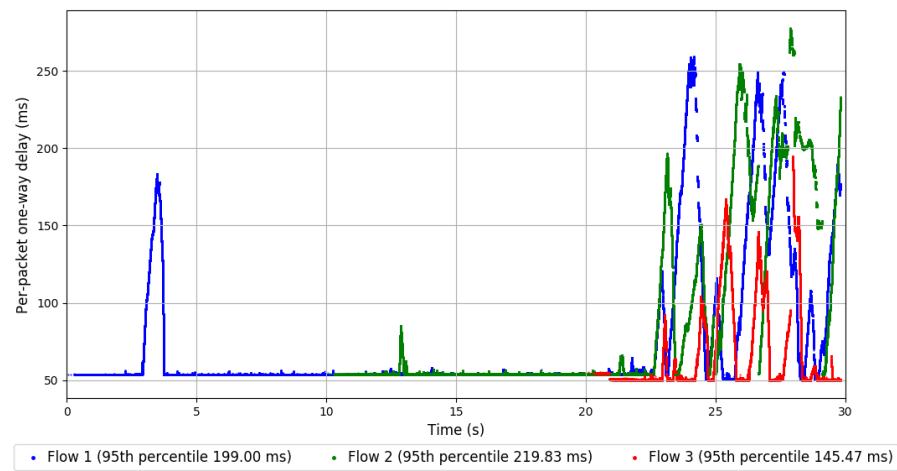
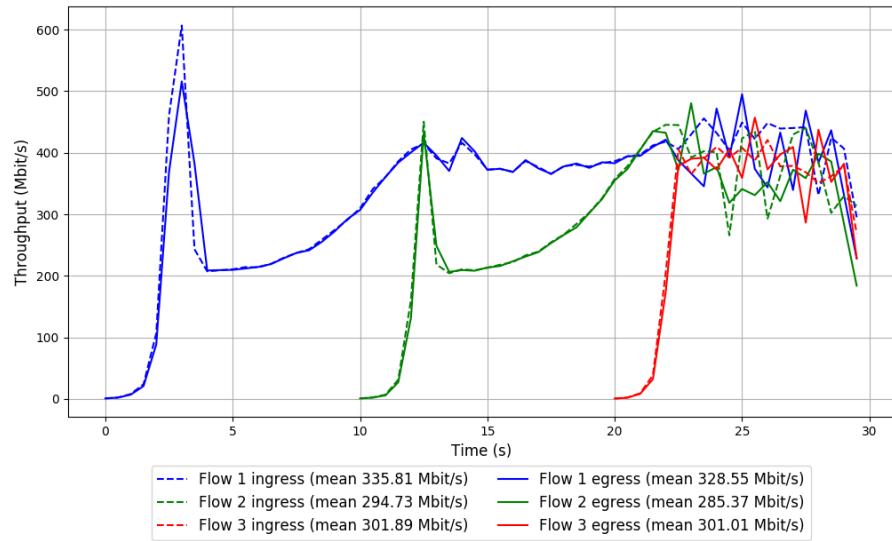
Run 5: Statistics of Vivace-loss

Start at: 2018-02-14 06:45:29

End at: 2018-02-14 06:45:59

```
# Below is generated by plot.py at 2018-02-14 13:34:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 616.04 Mbit/s
95th percentile per-packet one-way delay: 204.970 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 328.55 Mbit/s
95th percentile per-packet one-way delay: 199.002 ms
Loss rate: 2.57%
-- Flow 2:
Average throughput: 285.37 Mbit/s
95th percentile per-packet one-way delay: 219.826 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 301.01 Mbit/s
95th percentile per-packet one-way delay: 145.467 ms
Loss rate: 1.38%
```

Run 5: Report of Vivace-loss — Data Link



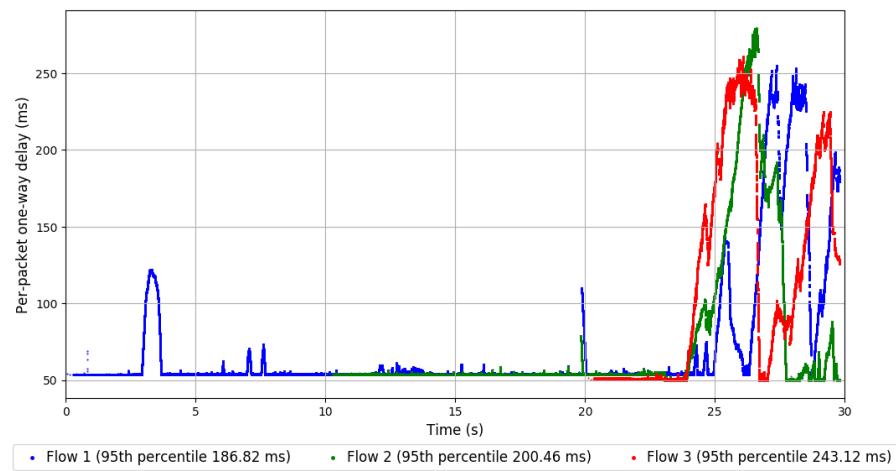
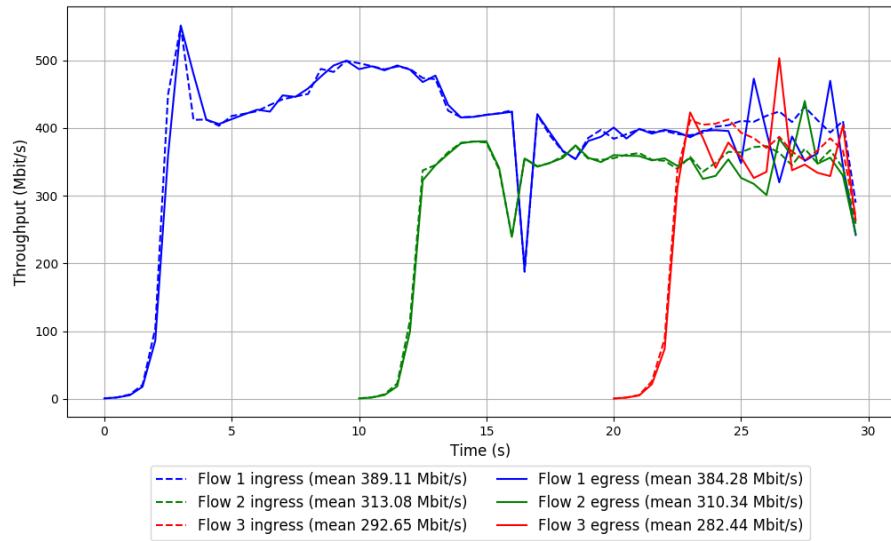
Run 6: Statistics of Vivace-loss

Start at: 2018-02-14 07:02:57

End at: 2018-02-14 07:03:27

```
# Below is generated by plot.py at 2018-02-14 13:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 682.25 Mbit/s
95th percentile per-packet one-way delay: 220.040 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 384.28 Mbit/s
95th percentile per-packet one-way delay: 186.822 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 310.34 Mbit/s
95th percentile per-packet one-way delay: 200.461 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 282.44 Mbit/s
95th percentile per-packet one-way delay: 243.120 ms
Loss rate: 4.49%
```

Run 6: Report of Vivace-loss — Data Link



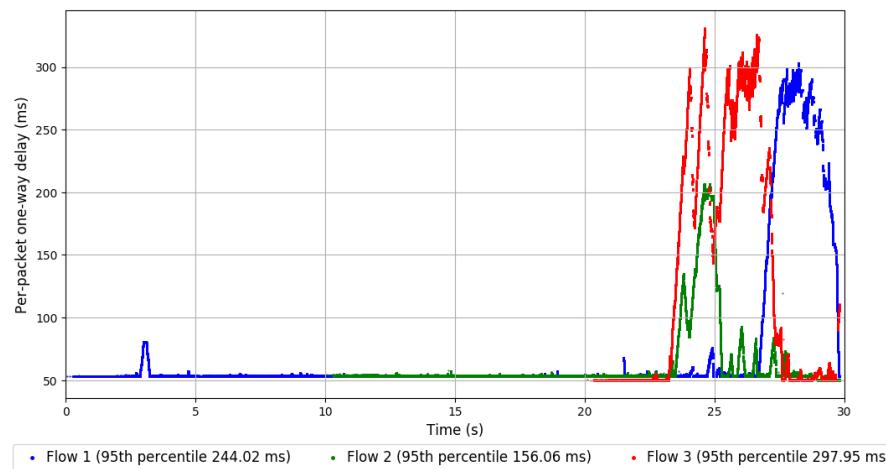
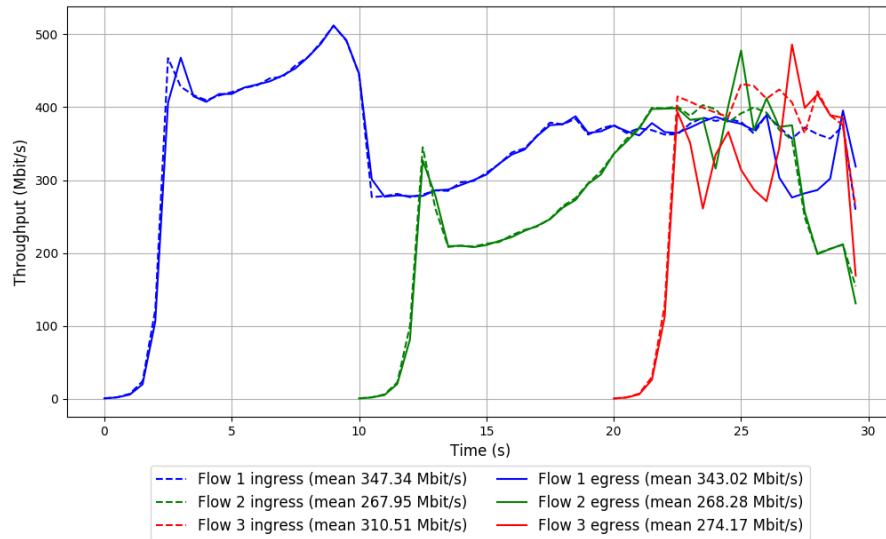
Run 7: Statistics of Vivace-loss

Start at: 2018-02-14 07:20:35

End at: 2018-02-14 07:21:05

```
# Below is generated by plot.py at 2018-02-14 13:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 610.38 Mbit/s
95th percentile per-packet one-way delay: 259.193 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 343.02 Mbit/s
95th percentile per-packet one-way delay: 244.020 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 268.28 Mbit/s
95th percentile per-packet one-way delay: 156.057 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 274.17 Mbit/s
95th percentile per-packet one-way delay: 297.955 ms
Loss rate: 12.64%
```

Run 7: Report of Vivace-loss — Data Link



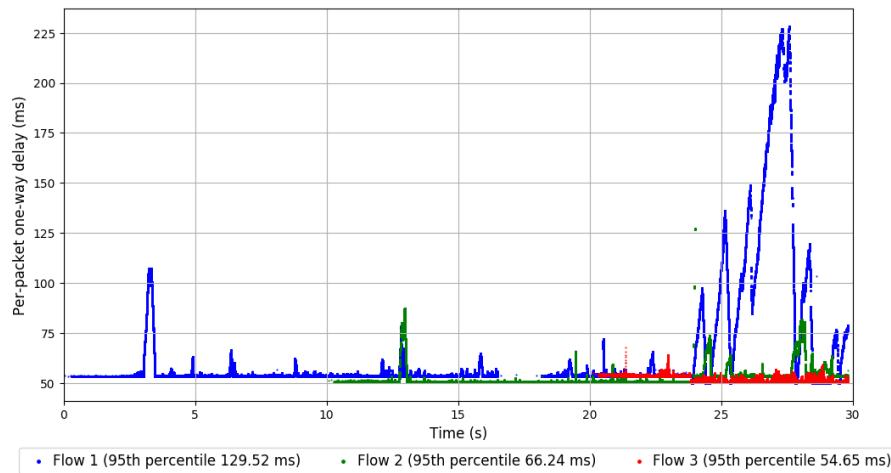
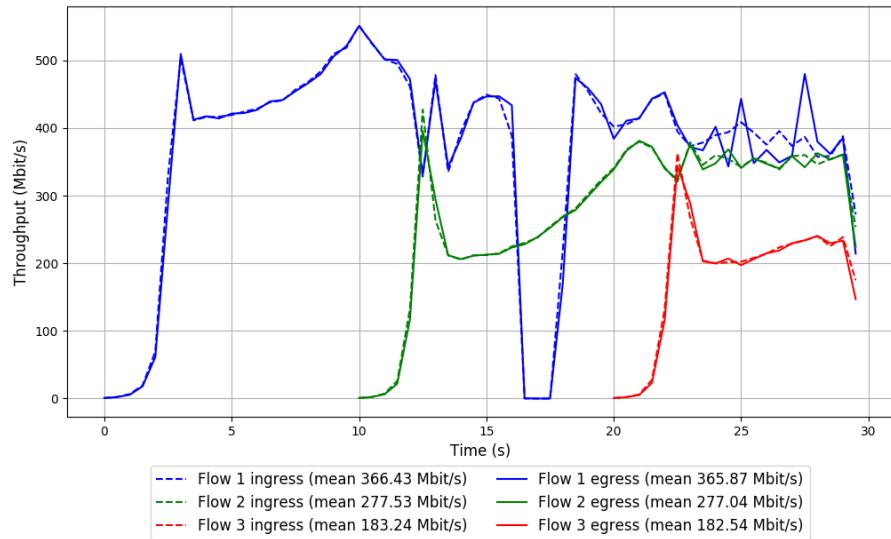
Run 8: Statistics of Vivace-loss

Start at: 2018-02-14 07:37:36

End at: 2018-02-14 07:38:06

```
# Below is generated by plot.py at 2018-02-14 13:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 609.19 Mbit/s
95th percentile per-packet one-way delay: 102.759 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 365.87 Mbit/s
95th percentile per-packet one-way delay: 129.519 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 277.04 Mbit/s
95th percentile per-packet one-way delay: 66.242 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 182.54 Mbit/s
95th percentile per-packet one-way delay: 54.649 ms
Loss rate: 1.48%
```

Run 8: Report of Vivace-loss — Data Link



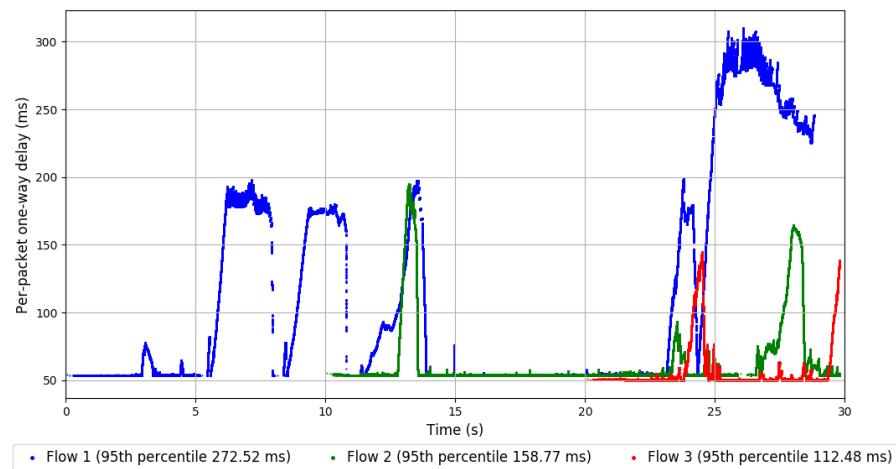
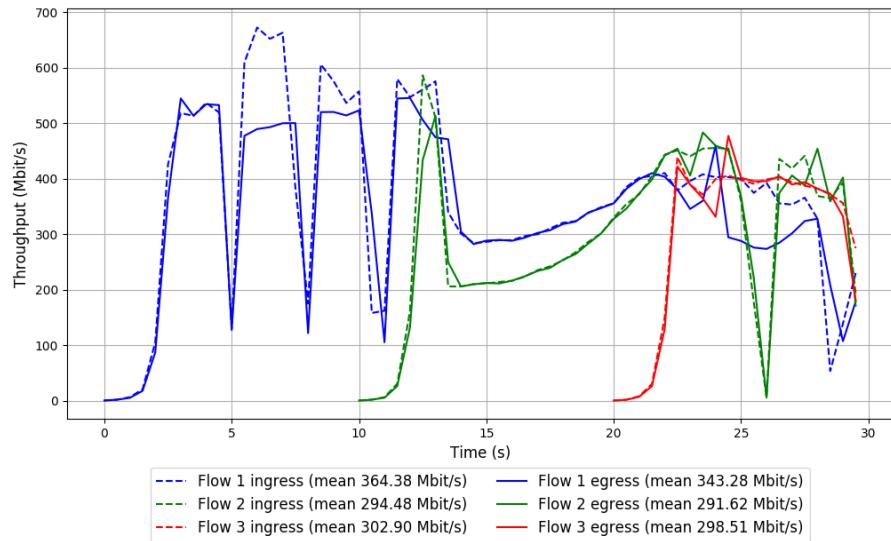
Run 9: Statistics of Vivace-loss

Start at: 2018-02-14 07:55:02

End at: 2018-02-14 07:55:32

```
# Below is generated by plot.py at 2018-02-14 13:40:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 634.28 Mbit/s
95th percentile per-packet one-way delay: 241.528 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 343.28 Mbit/s
95th percentile per-packet one-way delay: 272.525 ms
Loss rate: 6.16%
-- Flow 2:
Average throughput: 291.62 Mbit/s
95th percentile per-packet one-way delay: 158.768 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 298.51 Mbit/s
95th percentile per-packet one-way delay: 112.478 ms
Loss rate: 2.57%
```

Run 9: Report of Vivace-loss — Data Link

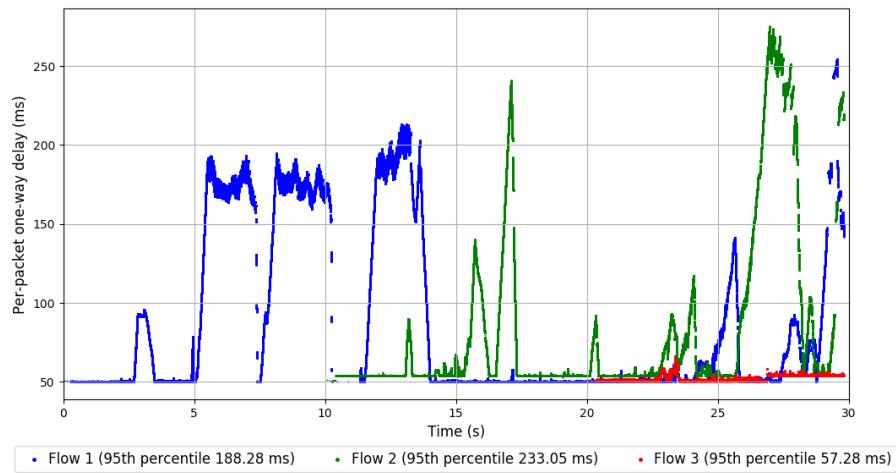
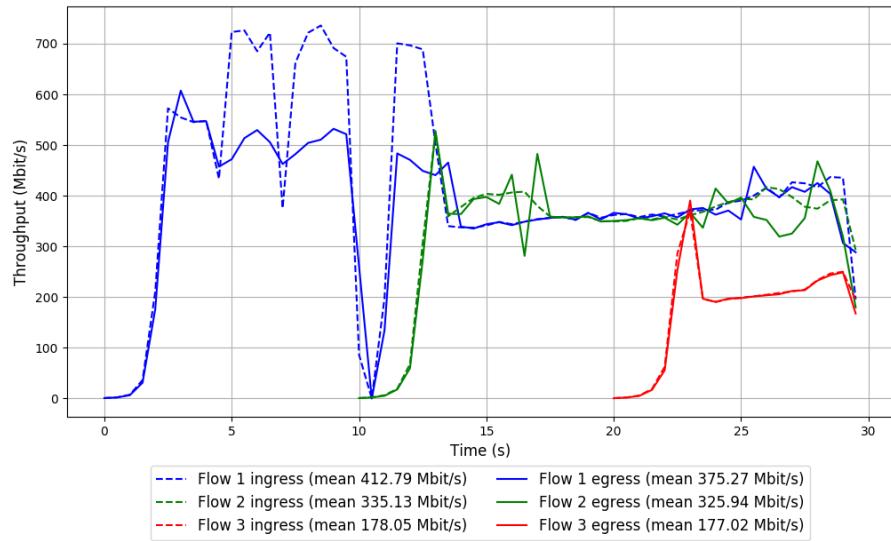


```
Run 10: Statistics of Vivace-loss

Start at: 2018-02-14 08:12:23
End at: 2018-02-14 08:12:53

# Below is generated by plot.py at 2018-02-14 13:42:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 649.29 Mbit/s
95th percentile per-packet one-way delay: 193.304 ms
Loss rate: 6.77%
-- Flow 1:
Average throughput: 375.27 Mbit/s
95th percentile per-packet one-way delay: 188.281 ms
Loss rate: 9.40%
-- Flow 2:
Average throughput: 325.94 Mbit/s
95th percentile per-packet one-way delay: 233.053 ms
Loss rate: 3.24%
-- Flow 3:
Average throughput: 177.02 Mbit/s
95th percentile per-packet one-way delay: 57.279 ms
Loss rate: 1.62%
```

Run 10: Report of Vivace-loss — Data Link

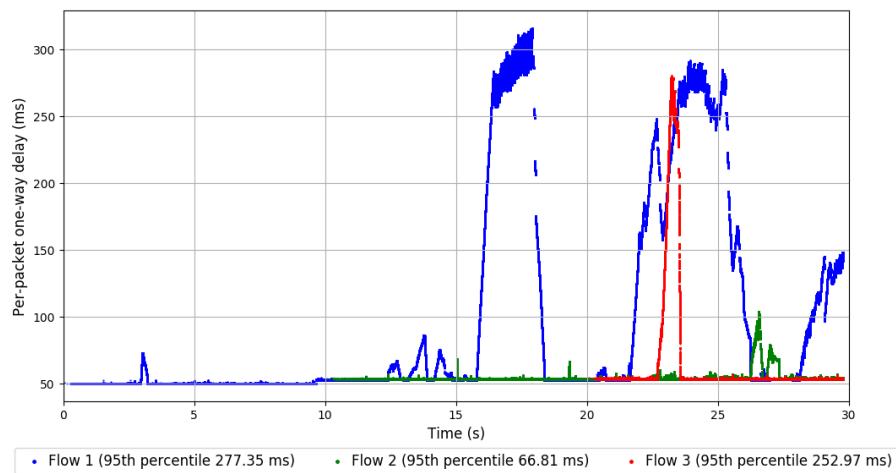
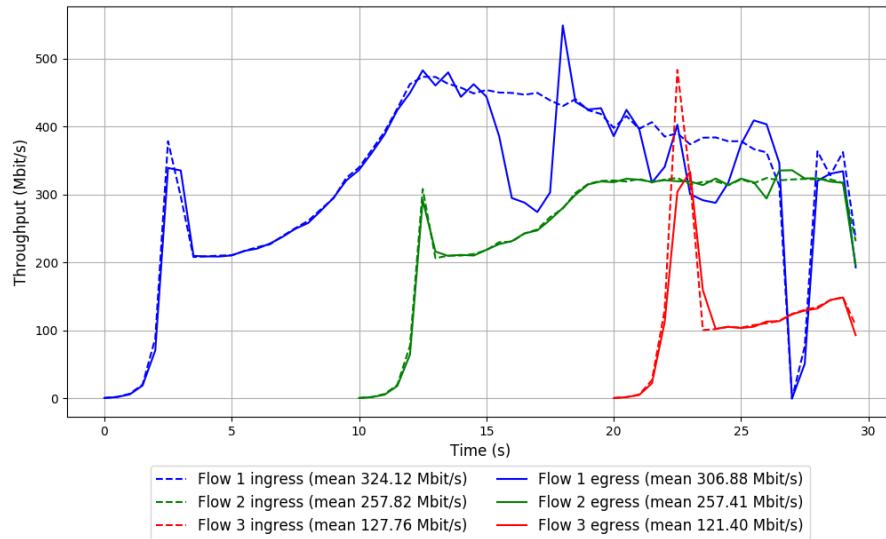


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-14 05:33:44
End at: 2018-02-14 05:34:14

# Below is generated by plot.py at 2018-02-14 13:43:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.18 Mbit/s
95th percentile per-packet one-way delay: 267.190 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 306.88 Mbit/s
95th percentile per-packet one-way delay: 277.353 ms
Loss rate: 5.64%
-- Flow 2:
Average throughput: 257.41 Mbit/s
95th percentile per-packet one-way delay: 66.813 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 121.40 Mbit/s
95th percentile per-packet one-way delay: 252.968 ms
Loss rate: 6.05%
```

Run 1: Report of Vivace-LTE — Data Link



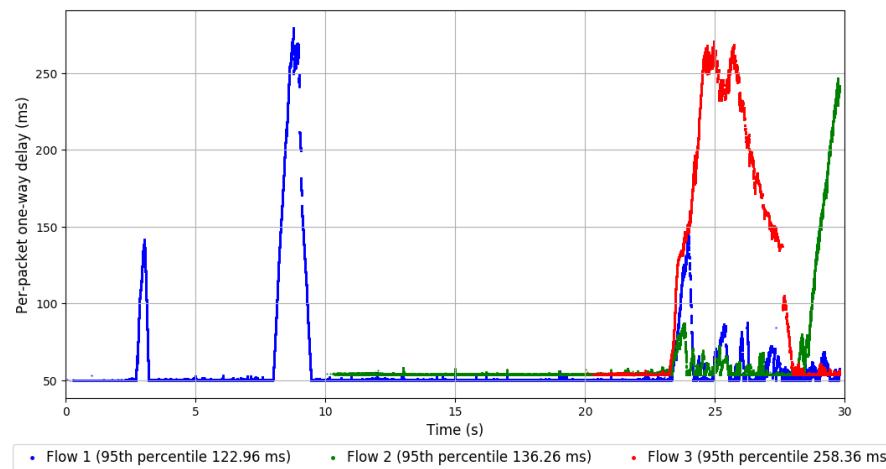
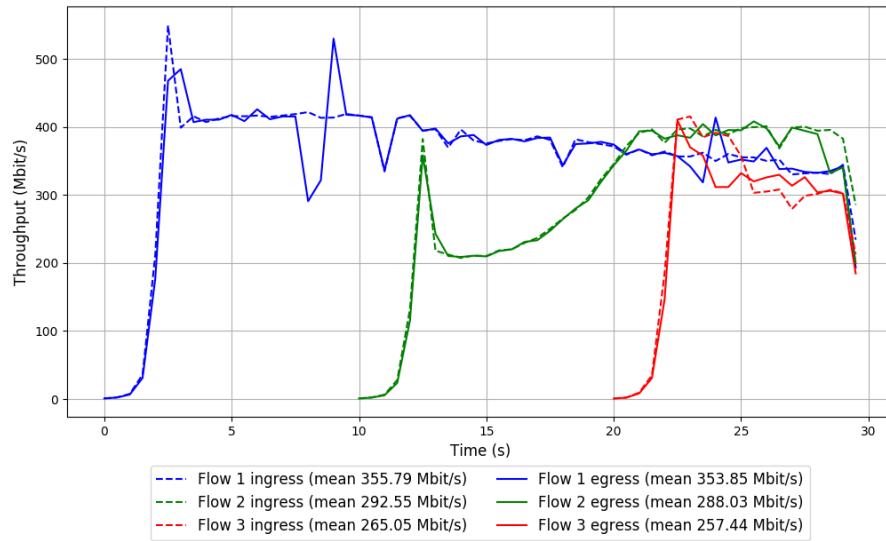
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-14 05:51:05

End at: 2018-02-14 05:51:35

```
# Below is generated by plot.py at 2018-02-14 13:46:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 628.96 Mbit/s
95th percentile per-packet one-way delay: 203.491 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 353.85 Mbit/s
95th percentile per-packet one-way delay: 122.958 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 288.03 Mbit/s
95th percentile per-packet one-way delay: 136.263 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 257.44 Mbit/s
95th percentile per-packet one-way delay: 258.356 ms
Loss rate: 3.95%
```

Run 2: Report of Vivace-LTE — Data Link



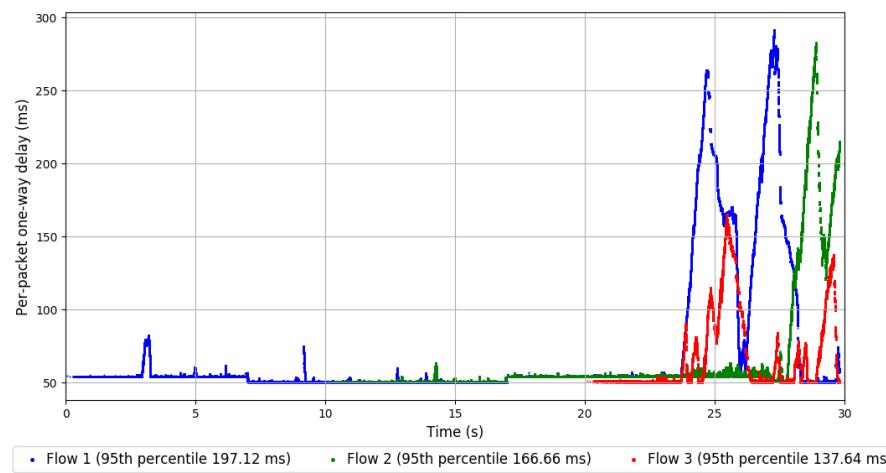
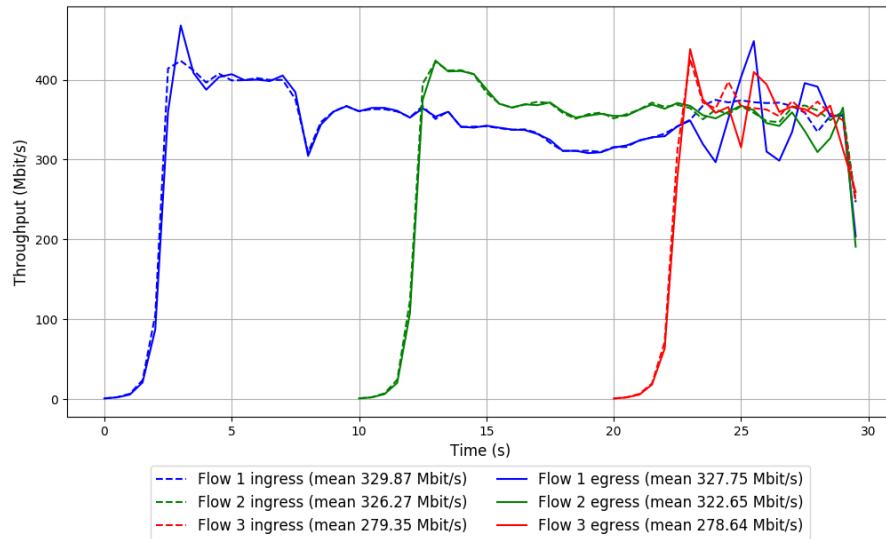
Run 3: Statistics of Vivace-LTE

Start at: 2018-02-14 06:08:27

End at: 2018-02-14 06:08:57

```
# Below is generated by plot.py at 2018-02-14 13:46:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 632.77 Mbit/s
95th percentile per-packet one-way delay: 171.550 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 327.75 Mbit/s
95th percentile per-packet one-way delay: 197.123 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 322.65 Mbit/s
95th percentile per-packet one-way delay: 166.664 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 278.64 Mbit/s
95th percentile per-packet one-way delay: 137.641 ms
Loss rate: 1.29%
```

Run 3: Report of Vivace-LTE — Data Link



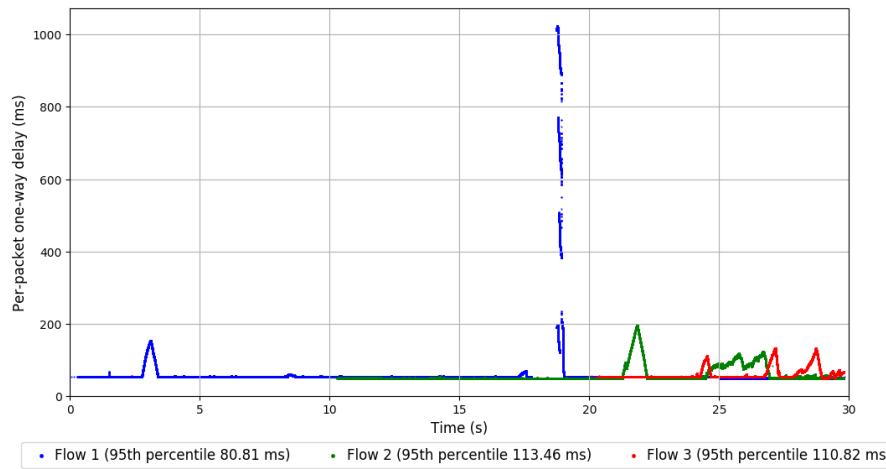
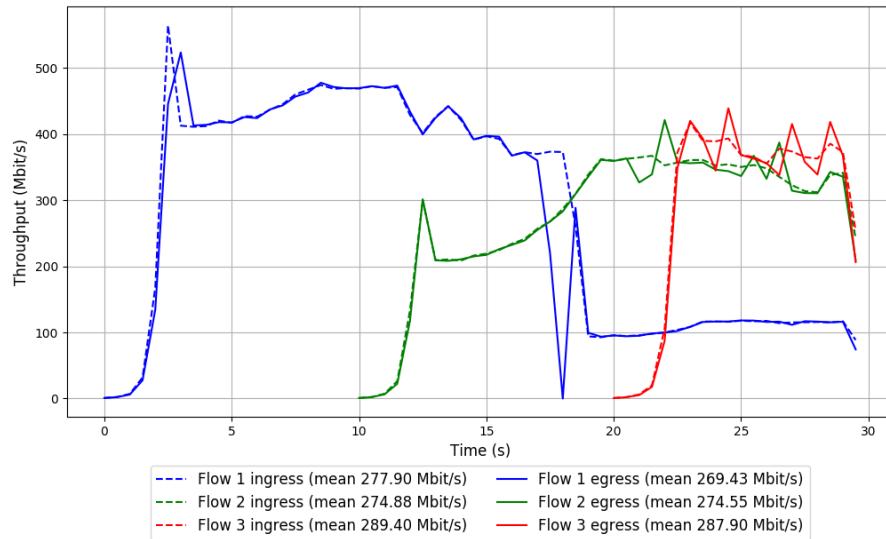
Run 4: Statistics of Vivace-LTE

Start at: 2018-02-14 06:25:55

End at: 2018-02-14 06:26:25

```
# Below is generated by plot.py at 2018-02-14 13:46:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 545.52 Mbit/s
95th percentile per-packet one-way delay: 109.379 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 269.43 Mbit/s
95th percentile per-packet one-way delay: 80.809 ms
Loss rate: 3.37%
-- Flow 2:
Average throughput: 274.55 Mbit/s
95th percentile per-packet one-way delay: 113.461 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 287.90 Mbit/s
95th percentile per-packet one-way delay: 110.819 ms
Loss rate: 1.60%
```

Run 4: Report of Vivace-LTE — Data Link



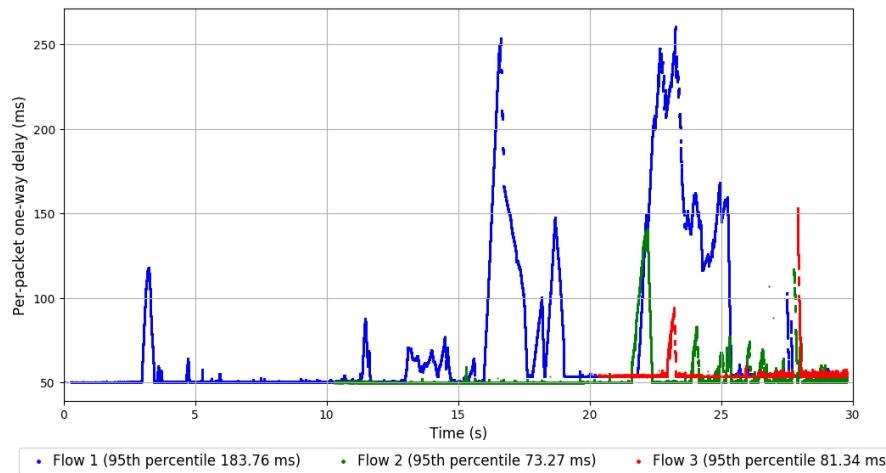
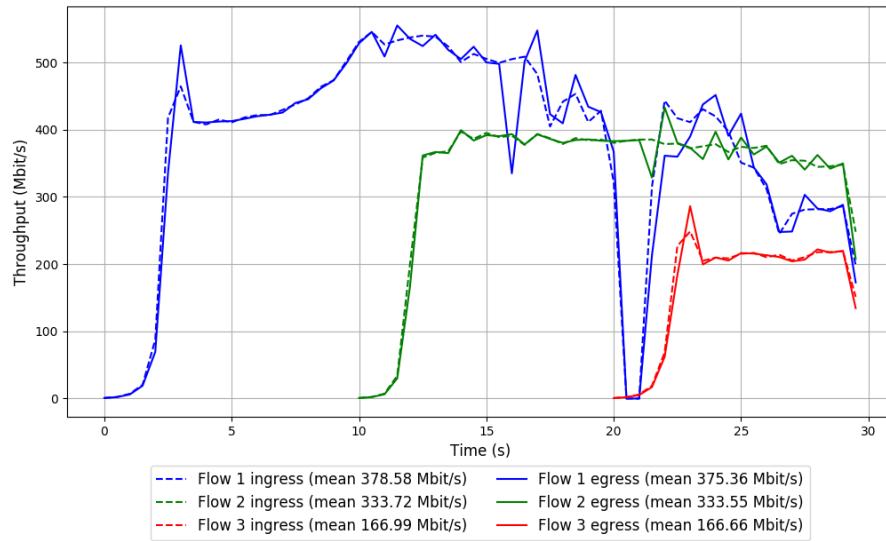
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-14 06:43:24

End at: 2018-02-14 06:43:54

```
# Below is generated by plot.py at 2018-02-14 13:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 650.96 Mbit/s
95th percentile per-packet one-way delay: 151.715 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 375.36 Mbit/s
95th percentile per-packet one-way delay: 183.761 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 333.55 Mbit/s
95th percentile per-packet one-way delay: 73.267 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 166.66 Mbit/s
95th percentile per-packet one-way delay: 81.341 ms
Loss rate: 1.29%
```

Run 5: Report of Vivace-LTE — Data Link



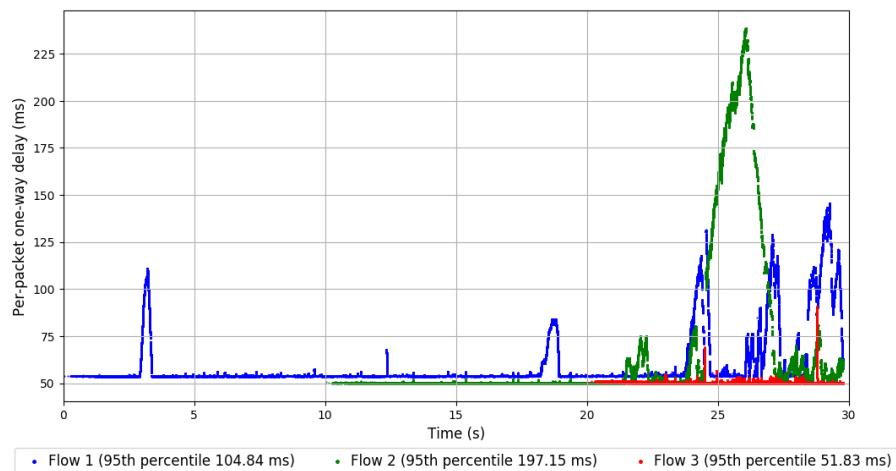
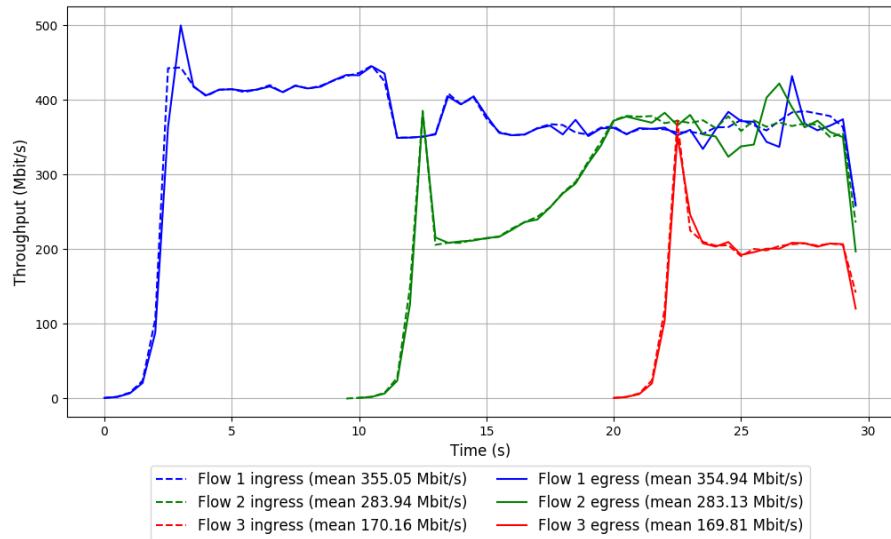
Run 6: Statistics of Vivace-LTE

Start at: 2018-02-14 07:00:48

End at: 2018-02-14 07:01:18

```
# Below is generated by plot.py at 2018-02-14 13:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 598.38 Mbit/s
95th percentile per-packet one-way delay: 121.412 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 354.94 Mbit/s
95th percentile per-packet one-way delay: 104.844 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 283.13 Mbit/s
95th percentile per-packet one-way delay: 197.153 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 169.81 Mbit/s
95th percentile per-packet one-way delay: 51.830 ms
Loss rate: 1.27%
```

Run 6: Report of Vivace-LTE — Data Link



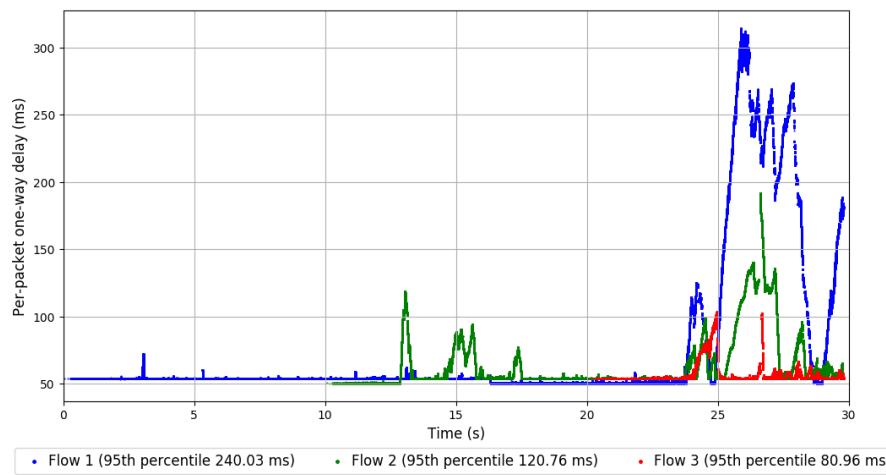
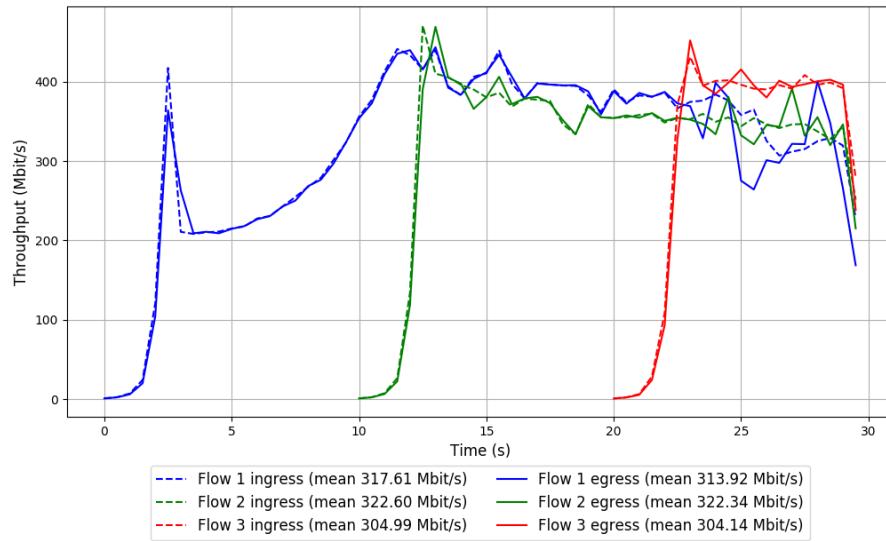
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-14 07:18:27

End at: 2018-02-14 07:18:57

```
# Below is generated by plot.py at 2018-02-14 13:49:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 627.06 Mbit/s
95th percentile per-packet one-way delay: 172.126 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 313.92 Mbit/s
95th percentile per-packet one-way delay: 240.033 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 322.34 Mbit/s
95th percentile per-packet one-way delay: 120.759 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 304.14 Mbit/s
95th percentile per-packet one-way delay: 80.964 ms
Loss rate: 1.35%
```

Run 7: Report of Vivace-LTE — Data Link



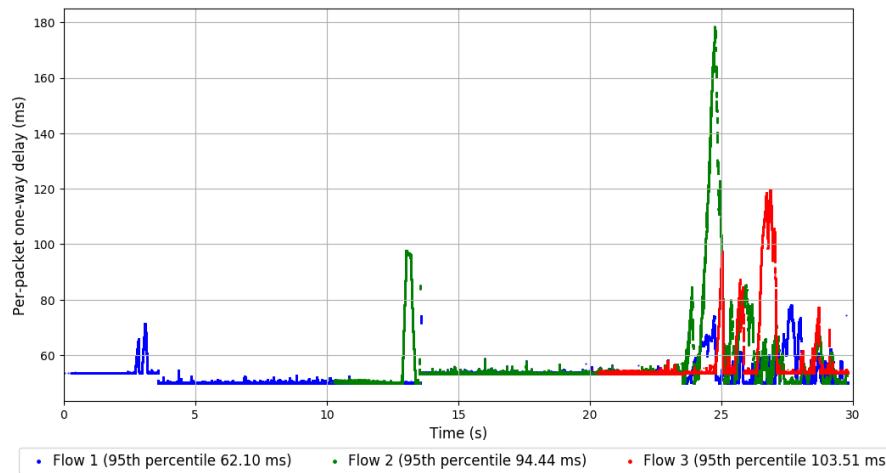
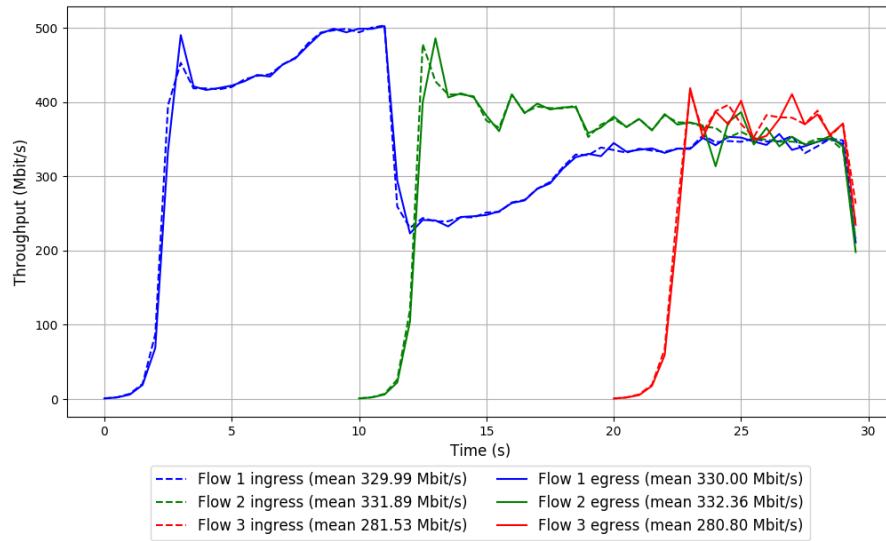
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-14 07:35:27

End at: 2018-02-14 07:35:57

```
# Below is generated by plot.py at 2018-02-14 13:50:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 642.26 Mbit/s
95th percentile per-packet one-way delay: 76.118 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 330.00 Mbit/s
95th percentile per-packet one-way delay: 62.101 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 332.36 Mbit/s
95th percentile per-packet one-way delay: 94.445 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 280.80 Mbit/s
95th percentile per-packet one-way delay: 103.510 ms
Loss rate: 1.33%
```

Run 8: Report of Vivace-LTE — Data Link



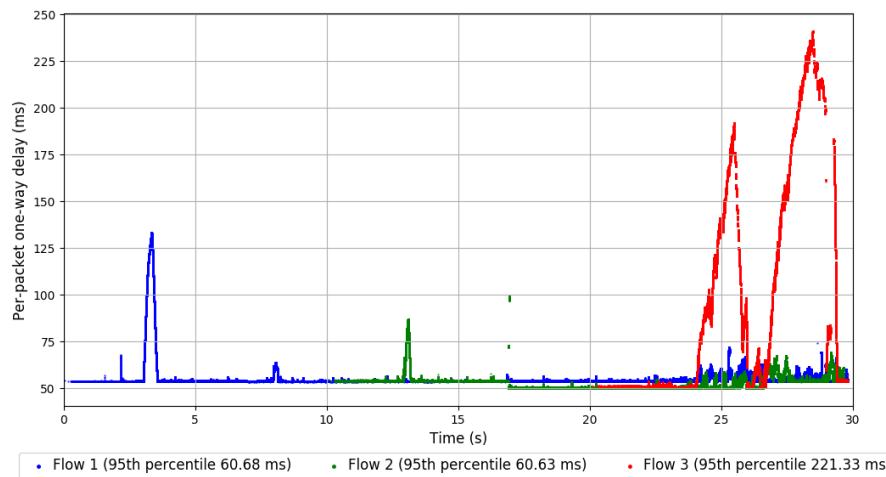
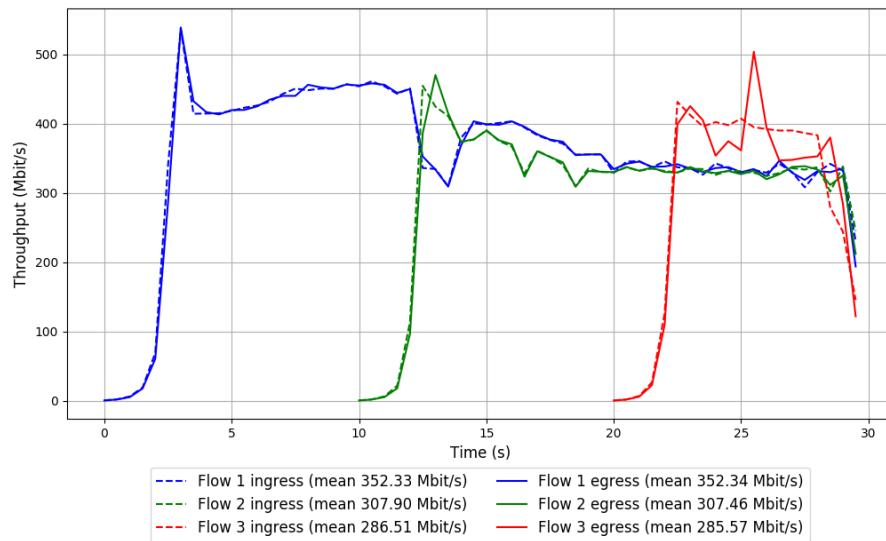
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-14 07:52:53

End at: 2018-02-14 07:53:23

```
# Below is generated by plot.py at 2018-02-14 13:50:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 649.35 Mbit/s
95th percentile per-packet one-way delay: 132.685 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 352.34 Mbit/s
95th percentile per-packet one-way delay: 60.678 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 307.46 Mbit/s
95th percentile per-packet one-way delay: 60.631 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 285.57 Mbit/s
95th percentile per-packet one-way delay: 221.331 ms
Loss rate: 1.31%
```

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-14 08:10:18

End at: 2018-02-14 08:10:48

```
# Below is generated by plot.py at 2018-02-14 13:50:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 581.46 Mbit/s
95th percentile per-packet one-way delay: 62.576 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 341.19 Mbit/s
95th percentile per-packet one-way delay: 64.622 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 278.76 Mbit/s
95th percentile per-packet one-way delay: 62.225 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 169.21 Mbit/s
95th percentile per-packet one-way delay: 51.706 ms
Loss rate: 1.41%
```

Run 10: Report of Vivace-LTE — Data Link

