

Pantheon Report

Generated at 2018-04-17 21:23:08 (UTC).

Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).

Repeated the test of 16 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 Queueing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

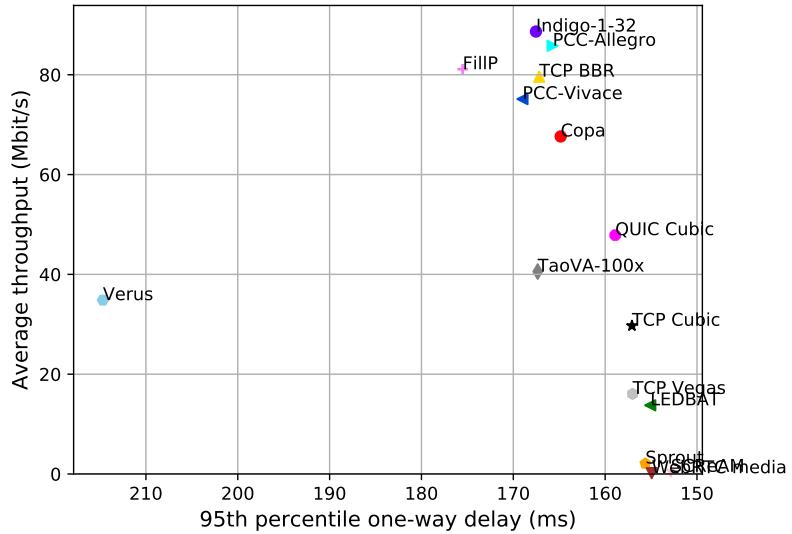
NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

Git summary:

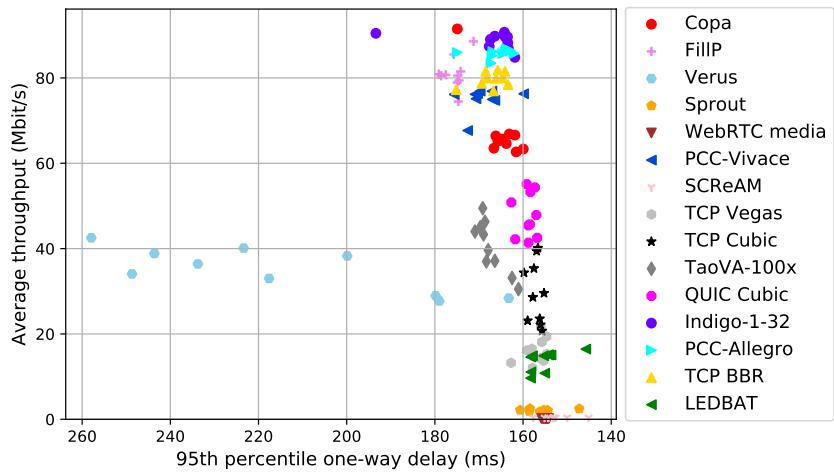
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Korea Ethernet to China 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	49.82	34.39	20.74	165.58	167.90	168.70	8.23	10.53	12.01
TCP Cubic	10	18.30	12.58	9.10	156.40	157.48	157.00	0.42	0.54	1.19
LEDBAT	10	8.61	6.21	3.14	154.89	153.93	153.26	0.07	0.08	0.00
PCC-Allegro	10	76.38	12.08	4.21	165.52	165.73	165.94	2.77	3.51	4.13
QUIC Cubic	10	27.18	25.13	12.48	158.22	158.52	158.28	2.44	2.37	0.84
SCReAM	10	0.22	0.22	0.22	152.09	151.89	151.82	0.00	0.00	0.00
WebRTC media	10	0.06	0.06	0.05	154.72	154.50	154.42	0.00	0.00	0.00
Sprout	10	1.01	1.11	1.04	154.44	154.94	154.69	0.05	0.15	0.00
TaoVA-100x	10	21.94	20.55	15.07	165.78	168.01	168.35	7.35	7.92	9.21
TCP Vegas	10	8.89	7.14	7.24	156.58	155.75	157.28	0.38	0.87	1.25
Verus	10	21.11	15.39	11.44	209.55	203.23	185.67	71.51	60.32	59.07
Copa	10	48.12	23.09	12.47	163.75	164.95	167.28	8.93	9.00	7.70
FillP	10	37.90	41.75	46.57	173.95	175.65	175.66	19.80	26.81	24.09
Indigo-1-32	10	55.90	36.78	29.57	166.37	168.01	167.15	54.32	71.22	77.22
PCC-Vivace	10	64.81	12.56	5.97	168.42	170.00	169.97	0.76	1.31	1.15
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

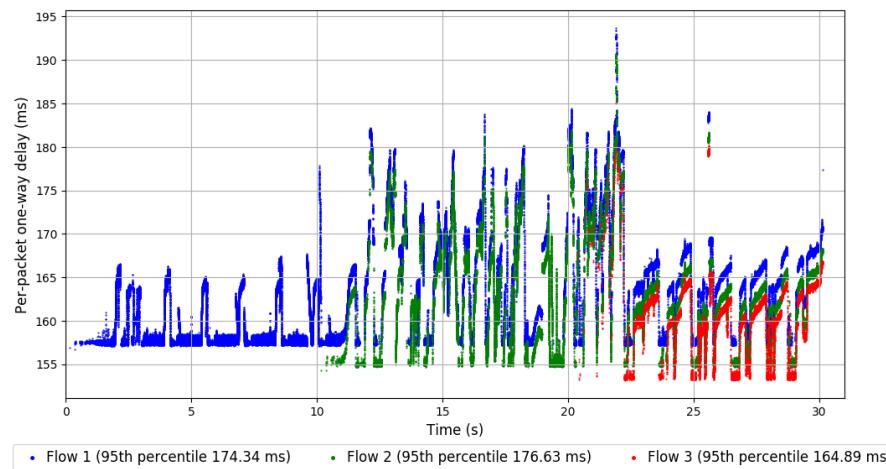
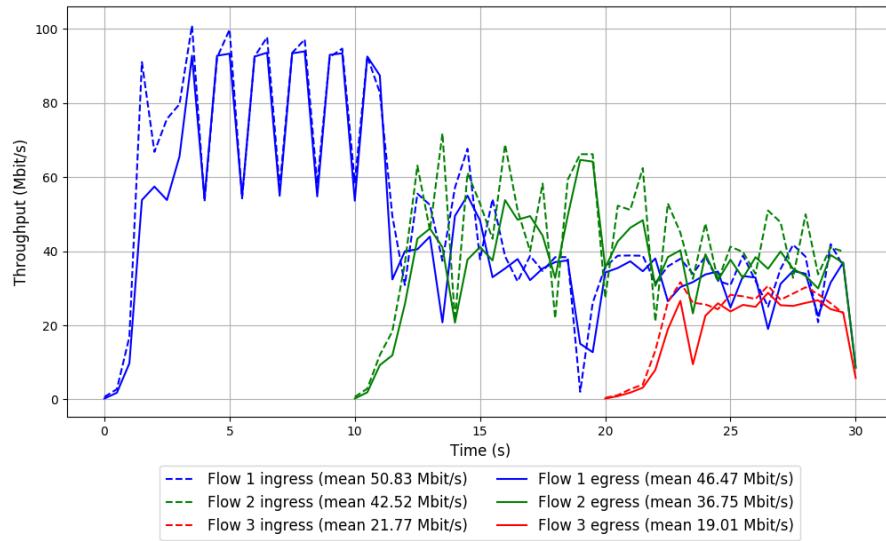
↳

Run 1: Statistics of TCP BBR

```
Start at: 2018-04-17 17:08:57
End at: 2018-04-17 17:09:27
Local clock offset: 5.671 ms
Remote clock offset: -12.135 ms

# Below is generated by plot.py at 2018-04-17 21:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 175.148 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 46.47 Mbit/s
95th percentile per-packet one-way delay: 174.344 ms
Loss rate: 8.54%
-- Flow 2:
Average throughput: 36.75 Mbit/s
95th percentile per-packet one-way delay: 176.633 ms
Loss rate: 13.53%
-- Flow 3:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 164.894 ms
Loss rate: 12.69%
```

Run 1: Report of TCP BBR — Data Link

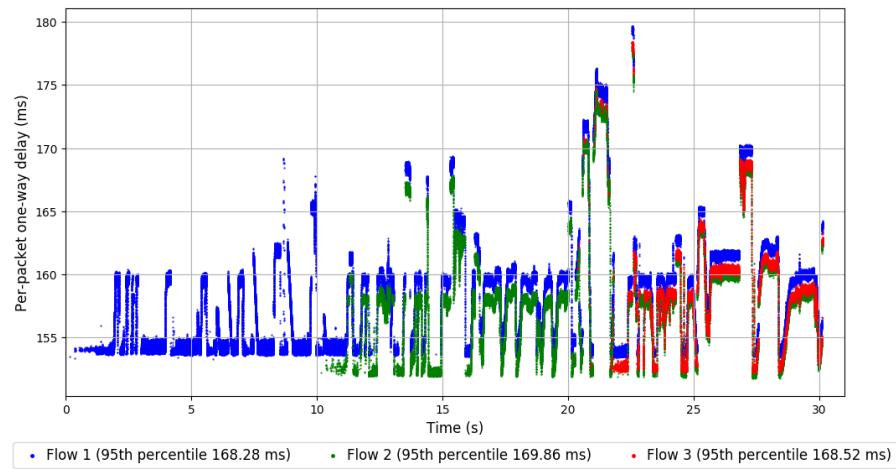
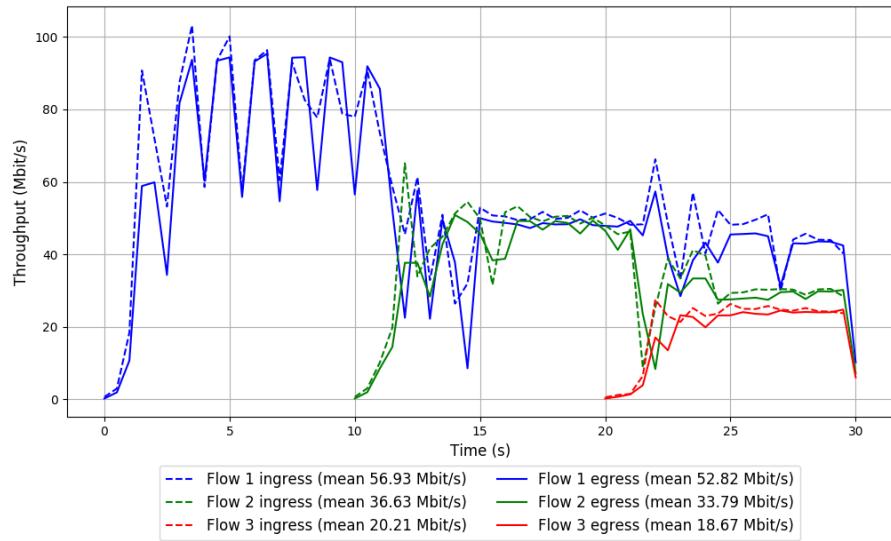


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-17 17:31:58
End at: 2018-04-17 17:32:28
Local clock offset: 6.996 ms
Remote clock offset: 2.634 ms

# Below is generated by plot.py at 2018-04-17 21:05:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.53 Mbit/s
95th percentile per-packet one-way delay: 168.467 ms
Loss rate: 7.36%
-- Flow 1:
Average throughput: 52.82 Mbit/s
95th percentile per-packet one-way delay: 168.284 ms
Loss rate: 7.19%
-- Flow 2:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 169.864 ms
Loss rate: 7.70%
-- Flow 3:
Average throughput: 18.67 Mbit/s
95th percentile per-packet one-way delay: 168.518 ms
Loss rate: 7.60%
```

Run 2: Report of TCP BBR — Data Link

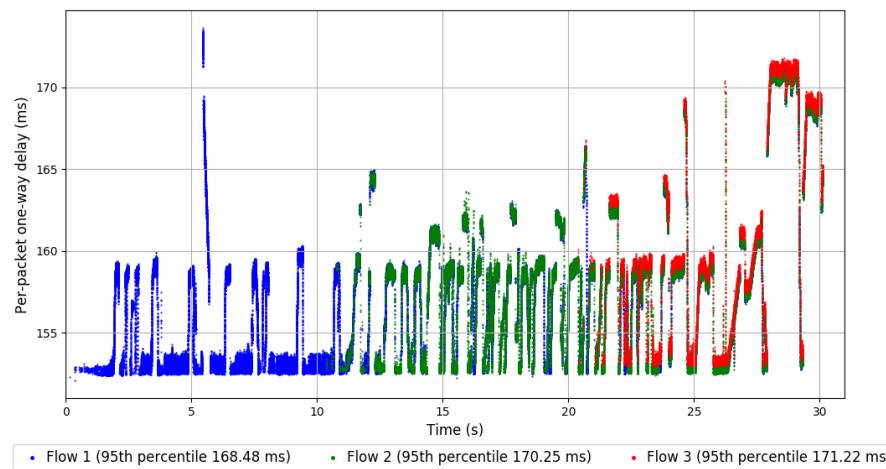
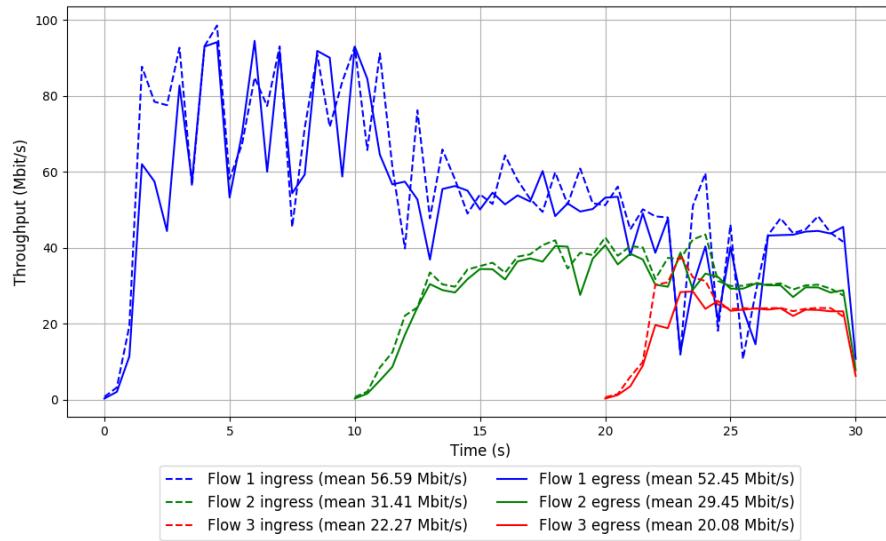


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-17 17:54:54
End at: 2018-04-17 17:55:24
Local clock offset: 8.21 ms
Remote clock offset: 3.777 ms

# Below is generated by plot.py at 2018-04-17 21:05:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.73 Mbit/s
95th percentile per-packet one-way delay: 169.376 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 168.476 ms
Loss rate: 7.29%
-- Flow 2:
Average throughput: 29.45 Mbit/s
95th percentile per-packet one-way delay: 170.252 ms
Loss rate: 6.18%
-- Flow 3:
Average throughput: 20.08 Mbit/s
95th percentile per-packet one-way delay: 171.217 ms
Loss rate: 9.78%
```

Run 3: Report of TCP BBR — Data Link

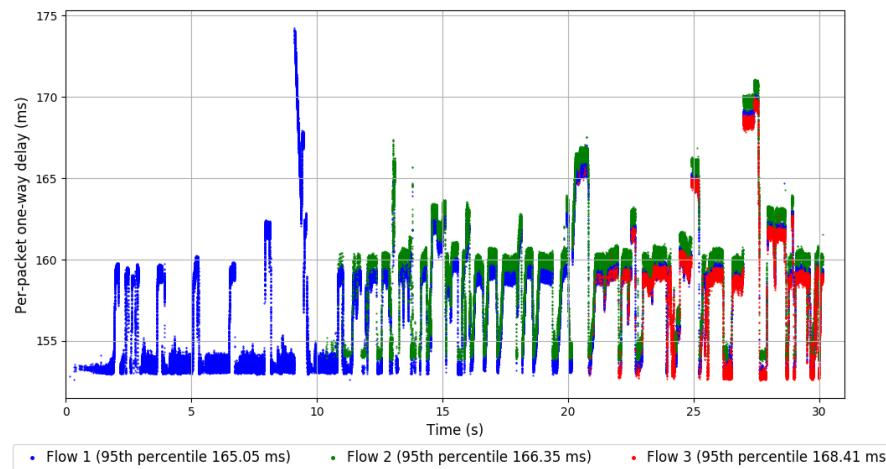
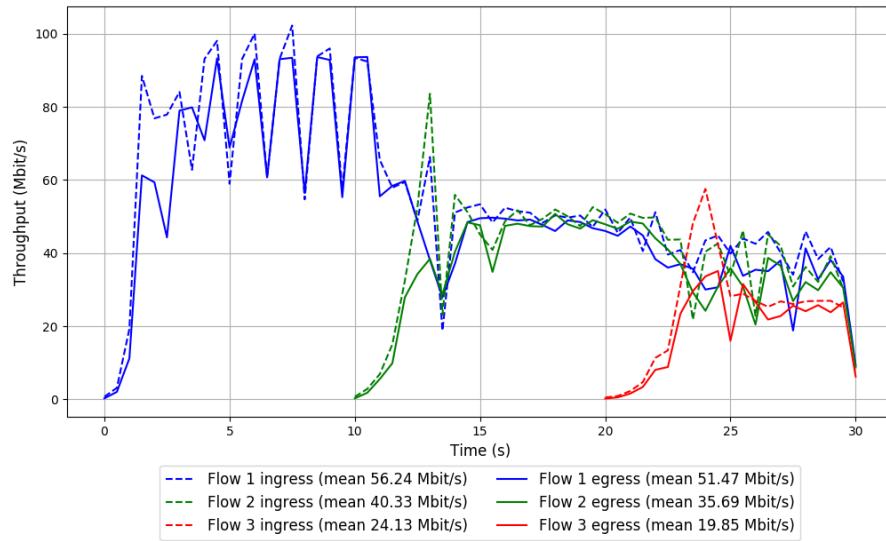


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-17 18:17:34
End at: 2018-04-17 18:18:04
Local clock offset: 4.422 ms
Remote clock offset: 3.957 ms

# Below is generated by plot.py at 2018-04-17 21:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 165.724 ms
Loss rate: 10.16%
-- Flow 1:
Average throughput: 51.47 Mbit/s
95th percentile per-packet one-way delay: 165.049 ms
Loss rate: 8.46%
-- Flow 2:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 166.346 ms
Loss rate: 11.46%
-- Flow 3:
Average throughput: 19.85 Mbit/s
95th percentile per-packet one-way delay: 168.414 ms
Loss rate: 17.74%
```

Run 4: Report of TCP BBR — Data Link

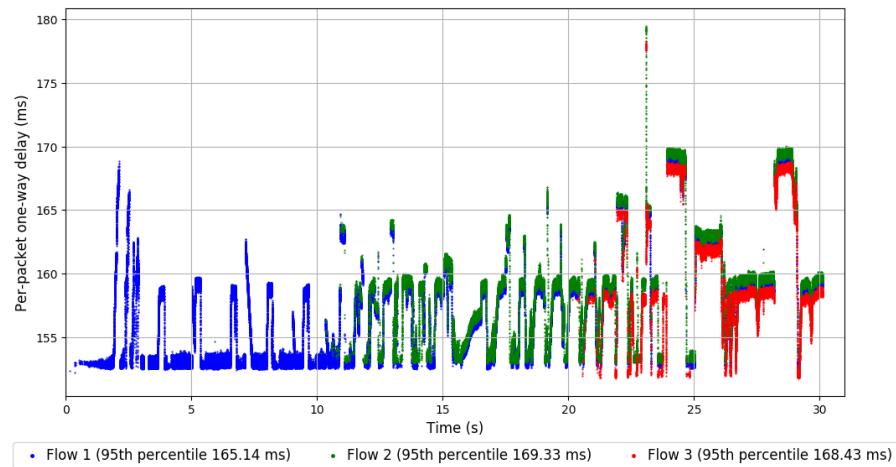
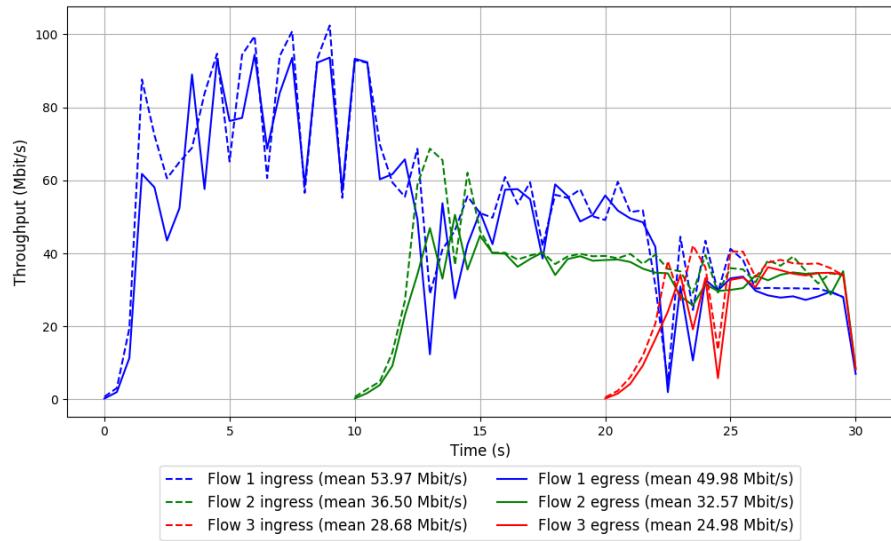


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-17 18:40:33
End at: 2018-04-17 18:41:03
Local clock offset: 5.421 ms
Remote clock offset: 1.599 ms

# Below is generated by plot.py at 2018-04-17 21:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.96 Mbit/s
95th percentile per-packet one-way delay: 168.162 ms
Loss rate: 8.92%
-- Flow 1:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 165.136 ms
Loss rate: 7.39%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 169.329 ms
Loss rate: 10.75%
-- Flow 3:
Average throughput: 24.98 Mbit/s
95th percentile per-packet one-way delay: 168.428 ms
Loss rate: 12.90%
```

Run 5: Report of TCP BBR — Data Link

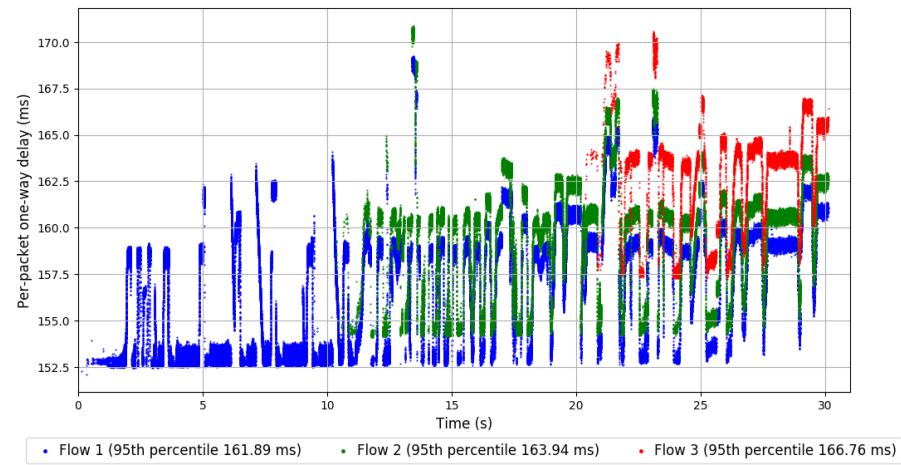
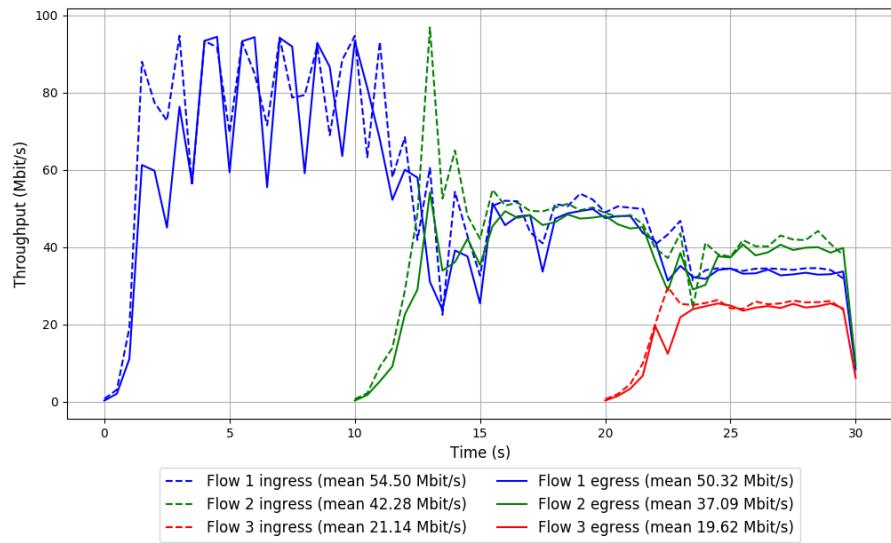


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-17 19:03:37
End at: 2018-04-17 19:04:07
Local clock offset: 6.12 ms
Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-04-17 21:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.54 Mbit/s
95th percentile per-packet one-way delay: 164.104 ms
Loss rate: 9.05%
-- Flow 1:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 161.890 ms
Loss rate: 7.65%
-- Flow 2:
Average throughput: 37.09 Mbit/s
95th percentile per-packet one-way delay: 163.936 ms
Loss rate: 12.24%
-- Flow 3:
Average throughput: 19.62 Mbit/s
95th percentile per-packet one-way delay: 166.763 ms
Loss rate: 7.10%
```

Run 6: Report of TCP BBR — Data Link

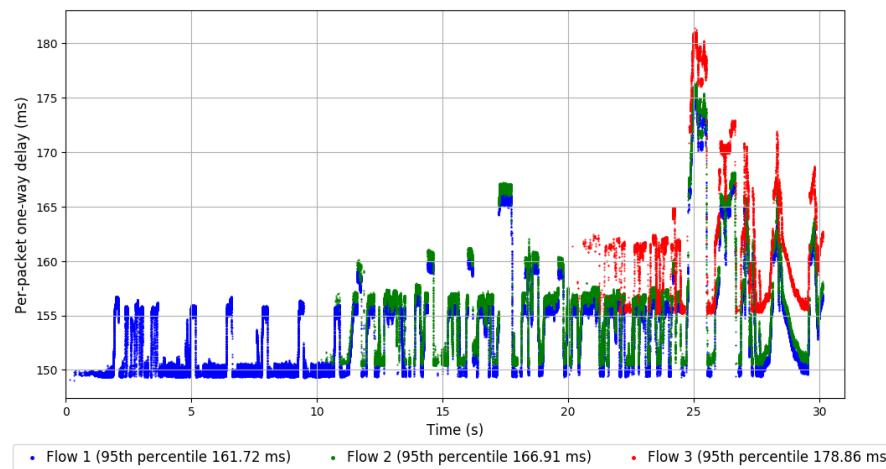
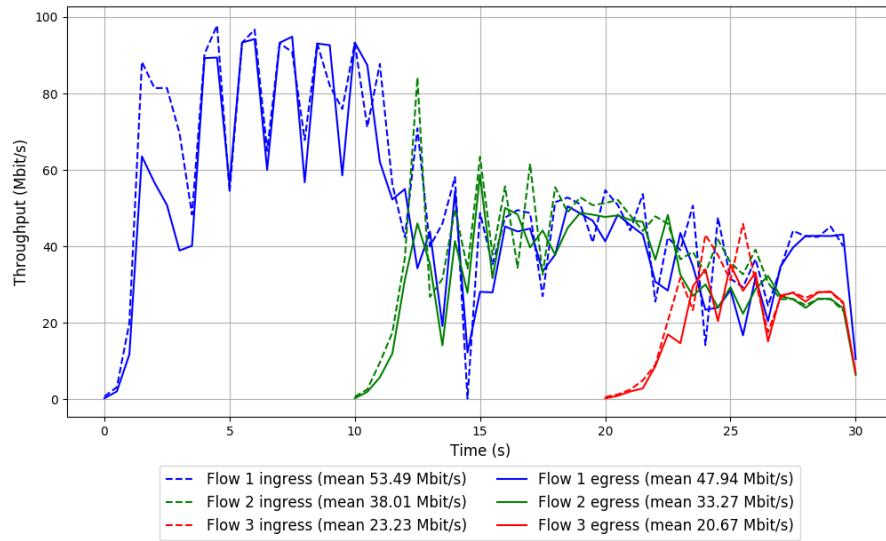


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-17 19:26:34
End at: 2018-04-17 19:27:04
Local clock offset: 11.23 ms
Remote clock offset: -1.129 ms

# Below is generated by plot.py at 2018-04-17 21:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 166.711 ms
Loss rate: 11.03%
-- Flow 1:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 161.722 ms
Loss rate: 10.35%
-- Flow 2:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 166.912 ms
Loss rate: 12.45%
-- Flow 3:
Average throughput: 20.67 Mbit/s
95th percentile per-packet one-way delay: 178.860 ms
Loss rate: 11.08%
```

Run 7: Report of TCP BBR — Data Link

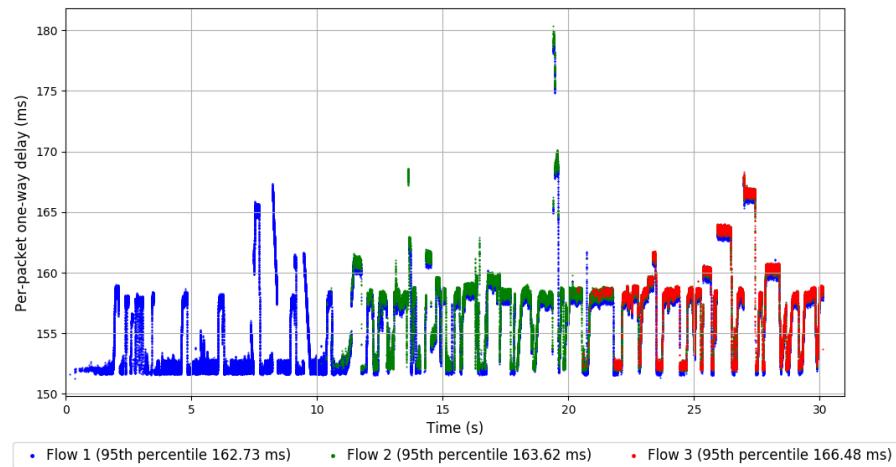
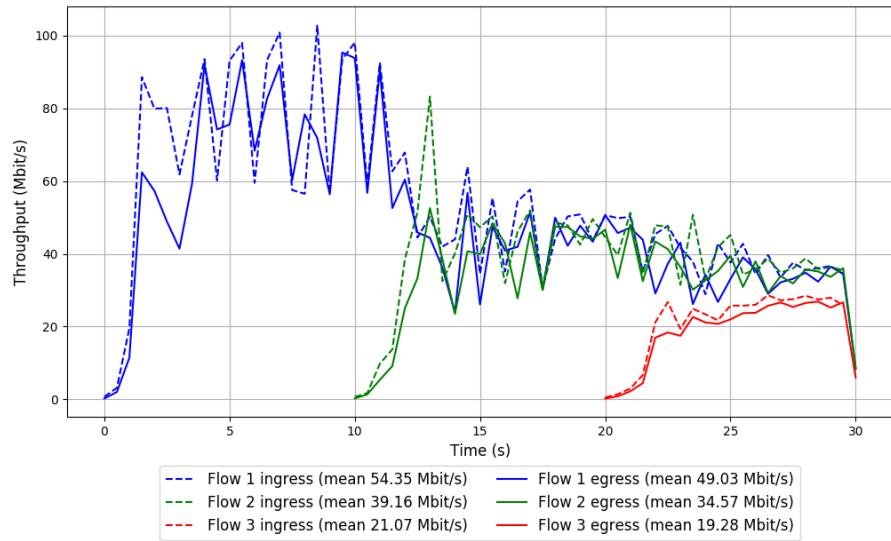


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-17 19:49:23
End at: 2018-04-17 19:49:53
Local clock offset: 5.277 ms
Remote clock offset: -1.091 ms

# Below is generated by plot.py at 2018-04-17 21:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 163.400 ms
Loss rate: 10.25%
-- Flow 1:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 162.726 ms
Loss rate: 9.77%
-- Flow 2:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 163.622 ms
Loss rate: 11.69%
-- Flow 3:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 166.477 ms
Loss rate: 8.56%
```

Run 8: Report of TCP BBR — Data Link

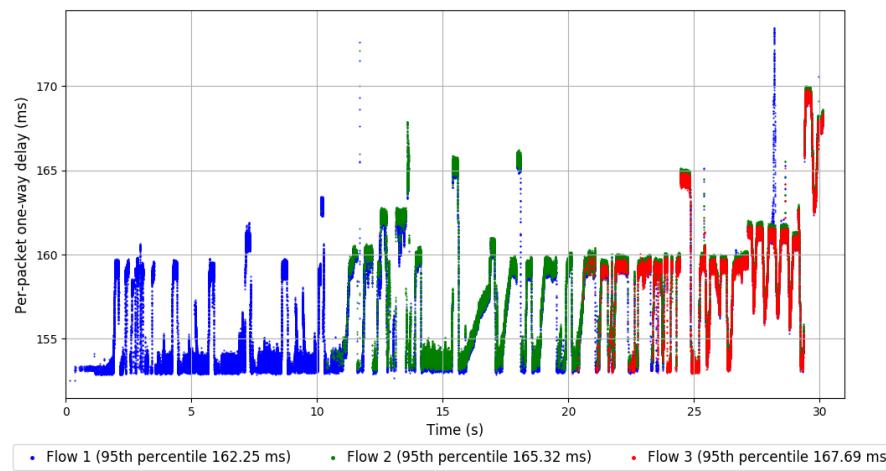
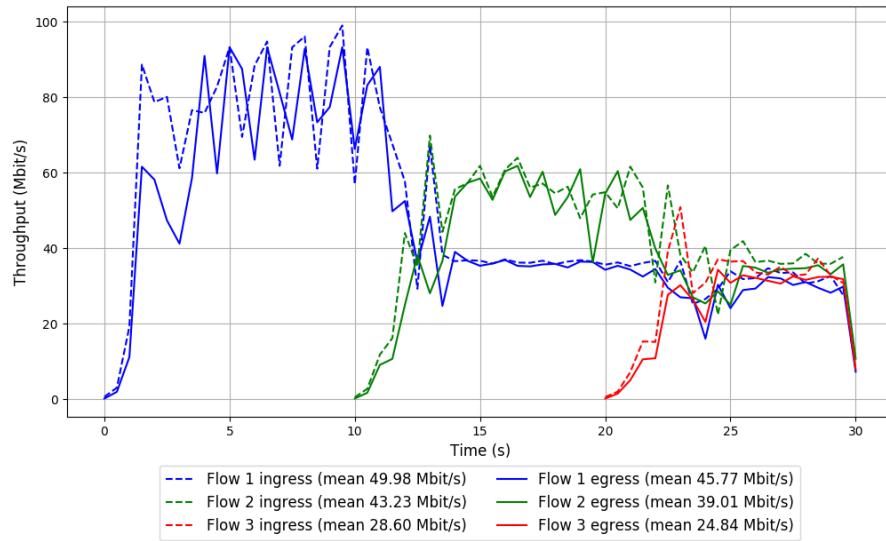


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-17 20:12:21
End at: 2018-04-17 20:12:51
Local clock offset: 2.183 ms
Remote clock offset: -1.29 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.99 Mbit/s
95th percentile per-packet one-way delay: 164.593 ms
Loss rate: 9.32%
-- Flow 1:
Average throughput: 45.77 Mbit/s
95th percentile per-packet one-way delay: 162.251 ms
Loss rate: 8.38%
-- Flow 2:
Average throughput: 39.01 Mbit/s
95th percentile per-packet one-way delay: 165.320 ms
Loss rate: 9.74%
-- Flow 3:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 167.692 ms
Loss rate: 13.02%
```

Run 9: Report of TCP BBR — Data Link

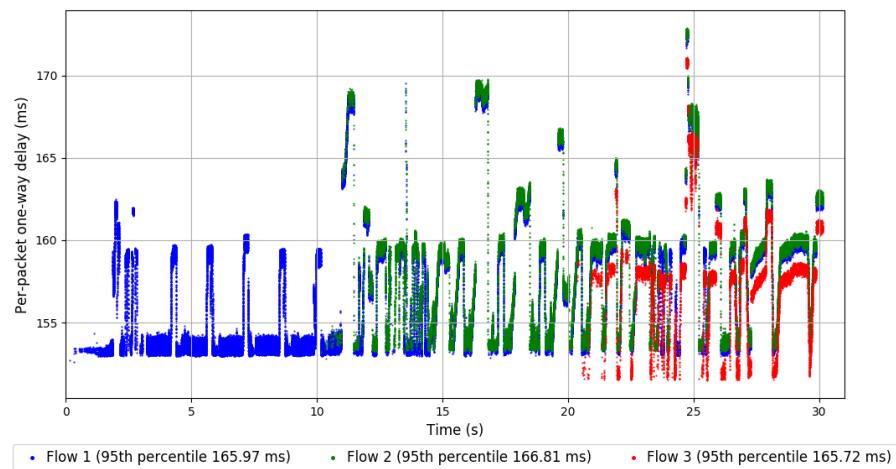
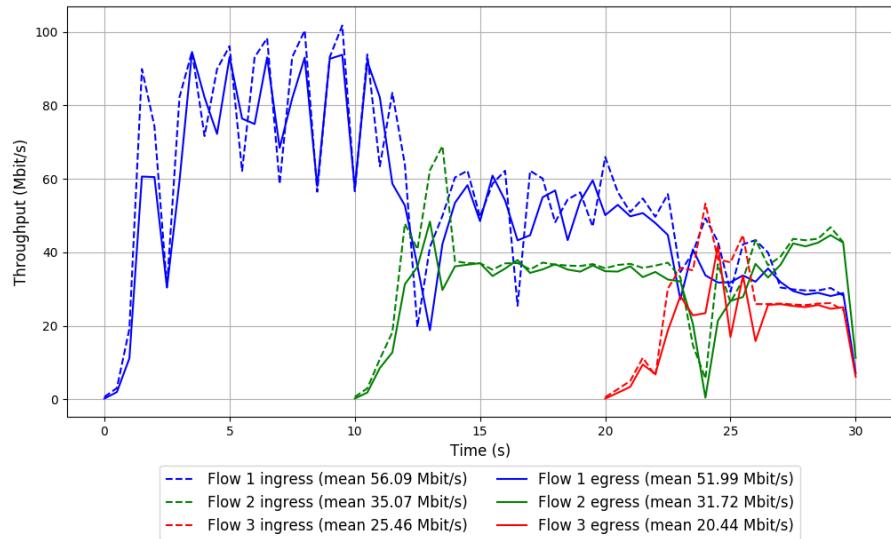


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-17 20:35:16
End at: 2018-04-17 20:35:46
Local clock offset: 5.11 ms
Remote clock offset: -1.402 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.92 Mbit/s
95th percentile per-packet one-way delay: 166.135 ms
Loss rate: 9.06%
-- Flow 1:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 165.969 ms
Loss rate: 7.28%
-- Flow 2:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 166.805 ms
Loss rate: 9.51%
-- Flow 3:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 165.717 ms
Loss rate: 19.65%
```

Run 10: Report of TCP BBR — Data Link

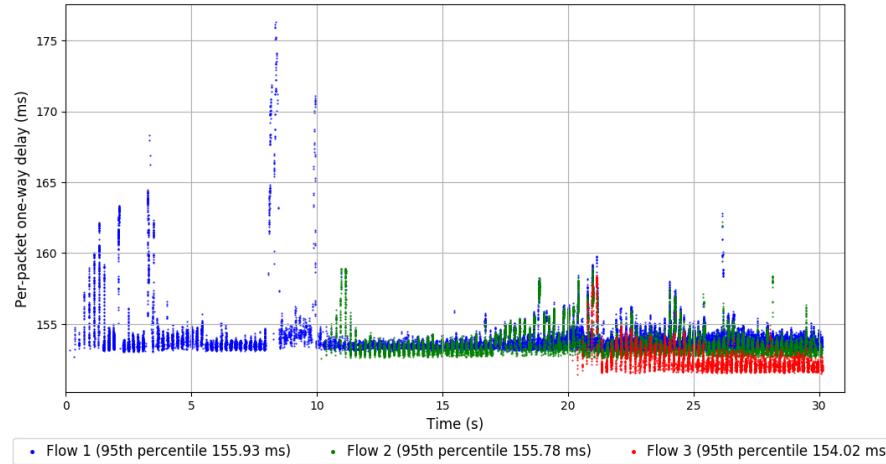
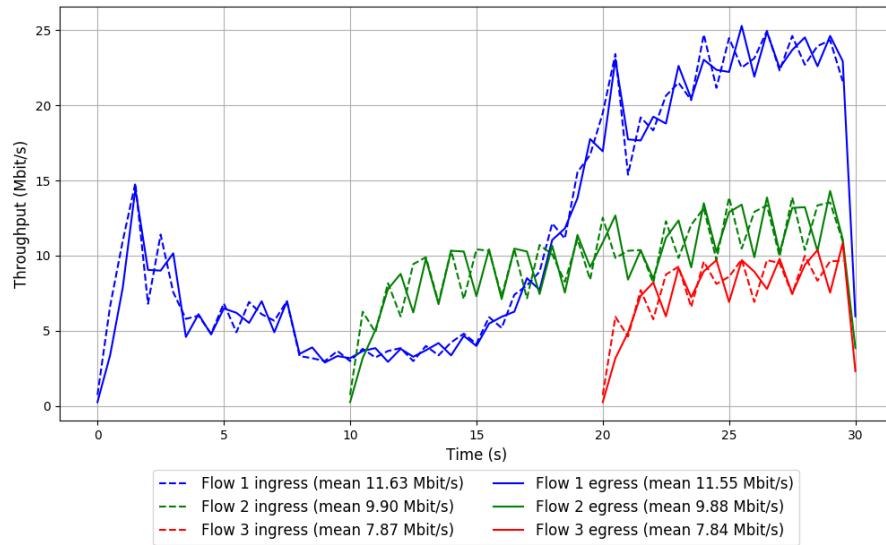


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-04-17 17:05:06
End at: 2018-04-17 17:05:36
Local clock offset: 5.625 ms
Remote clock offset: -3.033 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 155.698 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 155.928 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 155.783 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 154.022 ms
Loss rate: 0.43%
```

Run 1: Report of TCP Cubic — Data Link

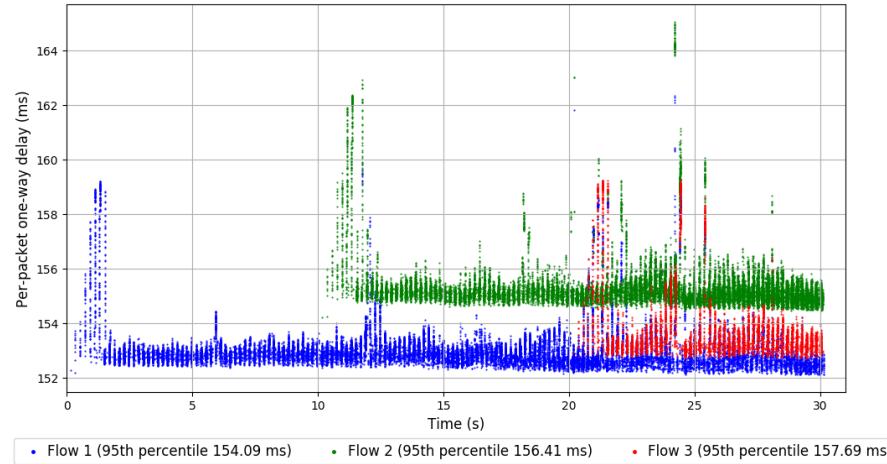
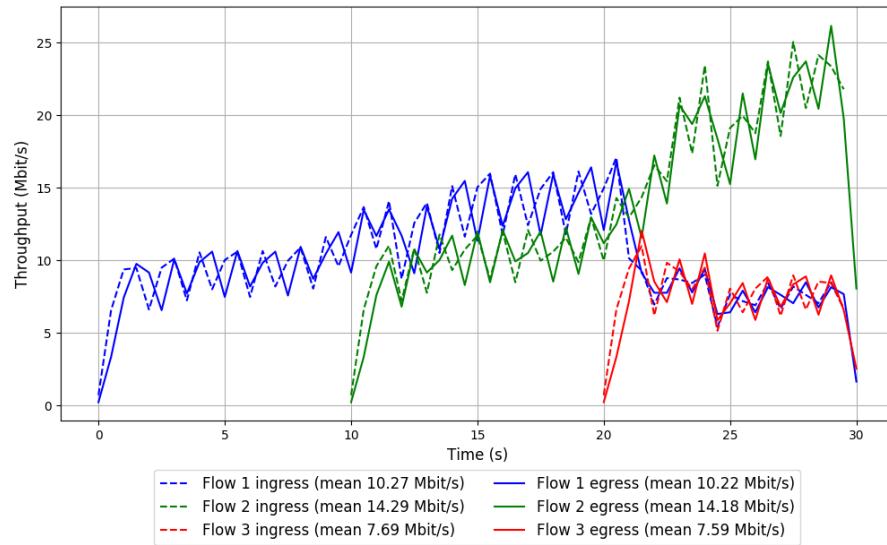


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-17 17:28:06
End at: 2018-04-17 17:28:36
Local clock offset: 6.68 ms
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 156.044 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 154.091 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 14.18 Mbit/s
95th percentile per-packet one-way delay: 156.407 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 157.688 ms
Loss rate: 1.35%
```

Run 2: Report of TCP Cubic — Data Link

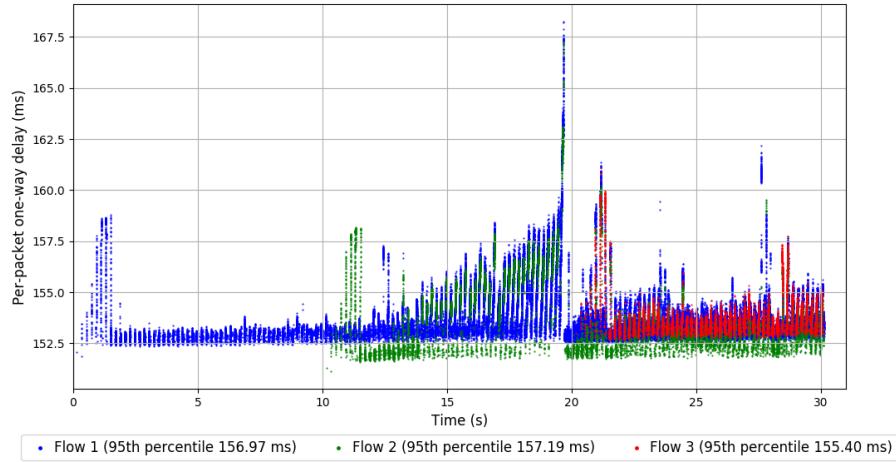
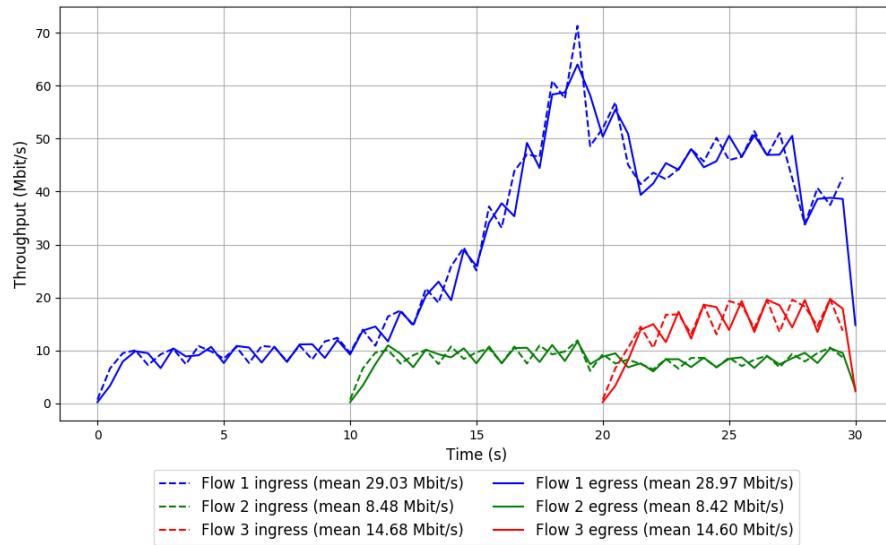


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-17 17:51:01
End at: 2018-04-17 17:51:31
Local clock offset: 7.993 ms
Remote clock offset: 5.867 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 156.925 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 156.974 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 157.187 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 155.403 ms
Loss rate: 0.56%
```

Run 3: Report of TCP Cubic — Data Link

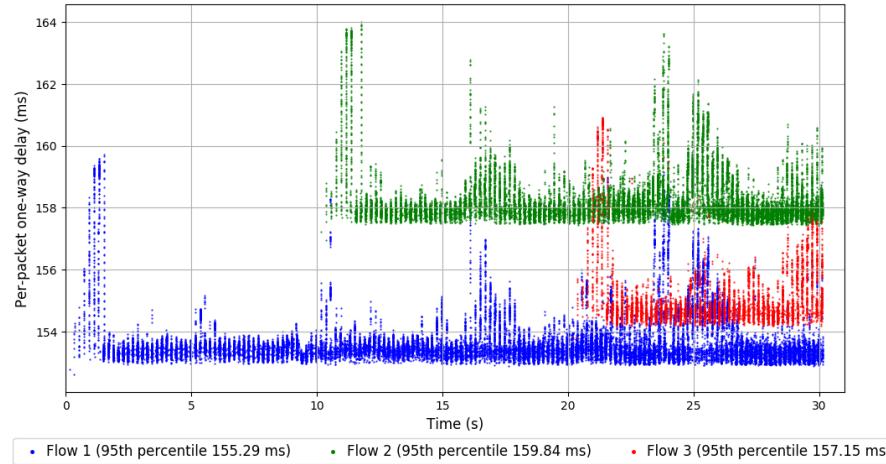
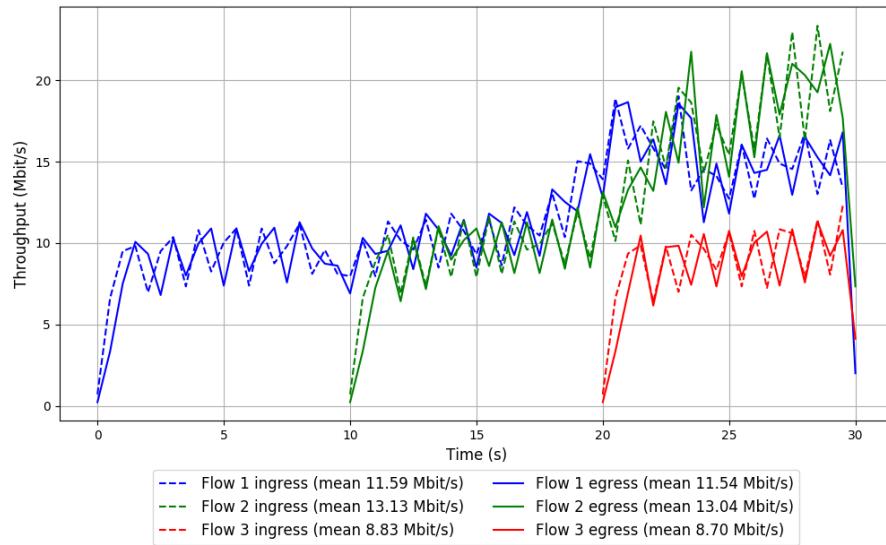


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-17 18:13:42
End at: 2018-04-17 18:14:12
Local clock offset: 4.528 ms
Remote clock offset: -6.839 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 158.962 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 155.293 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 159.843 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 157.152 ms
Loss rate: 1.45%
```

Run 4: Report of TCP Cubic — Data Link

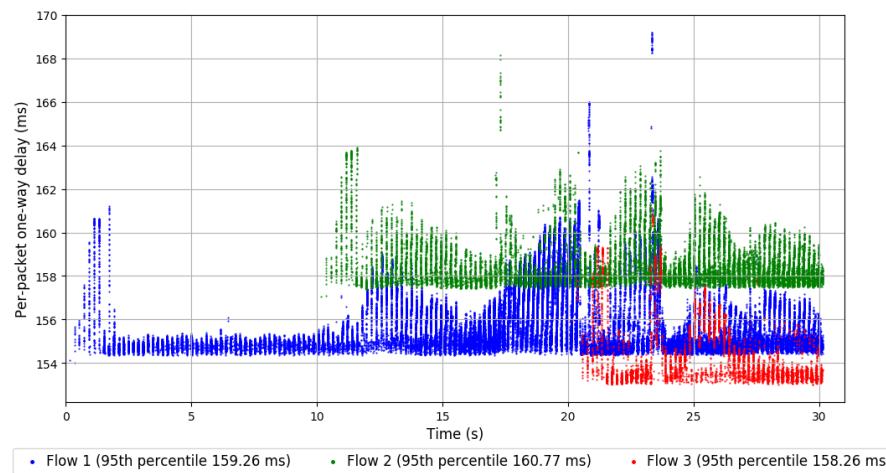
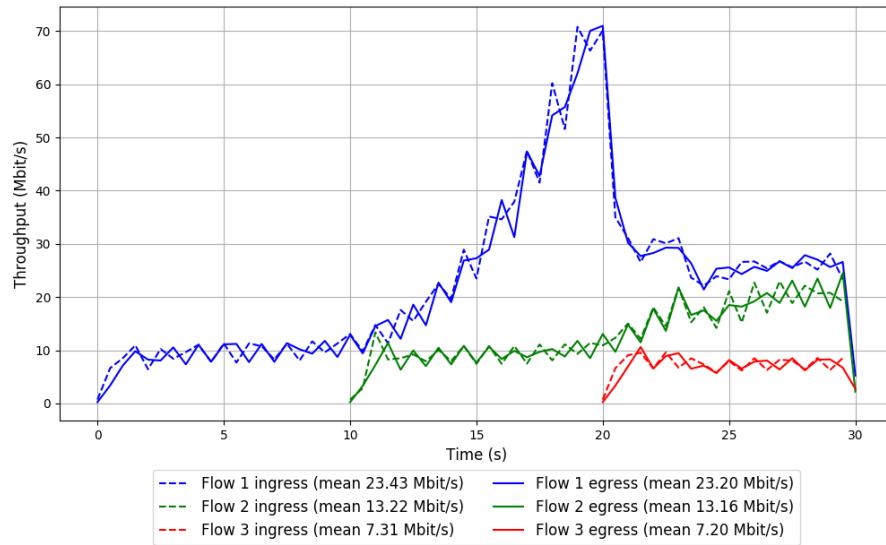


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-17 18:36:41
End at: 2018-04-17 18:37:11
Local clock offset: 5.169 ms
Remote clock offset: 1.66 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 159.791 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 159.257 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 160.772 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 158.265 ms
Loss rate: 1.60%
```

Run 5: Report of TCP Cubic — Data Link

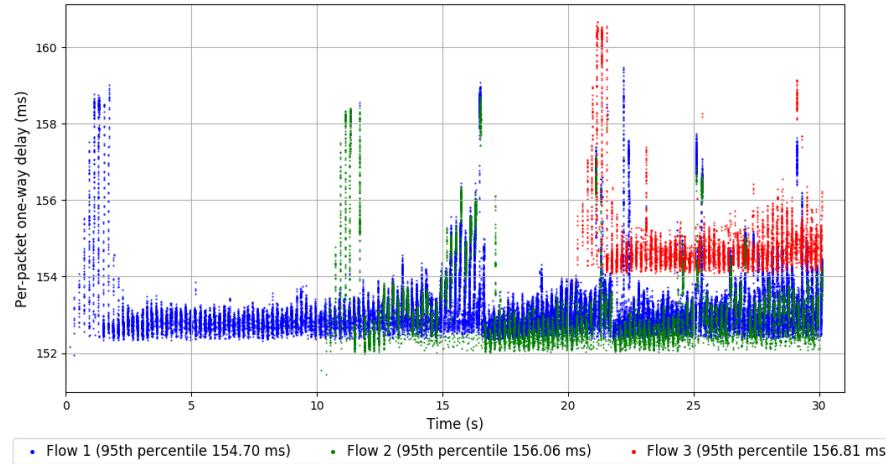
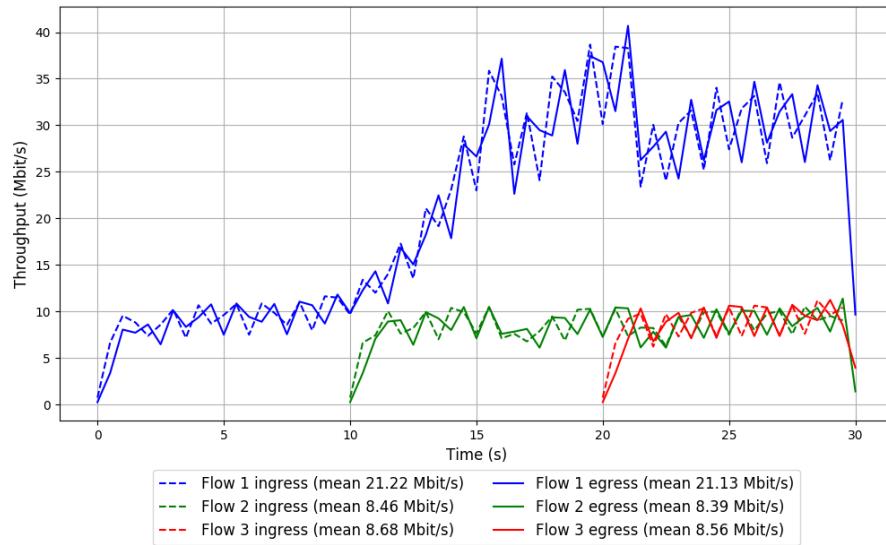


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-17 18:59:45
End at: 2018-04-17 19:00:15
Local clock offset: 6.224 ms
Remote clock offset: 0.715 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 155.247 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 154.703 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 156.065 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 156.811 ms
Loss rate: 1.35%
```

Run 6: Report of TCP Cubic — Data Link

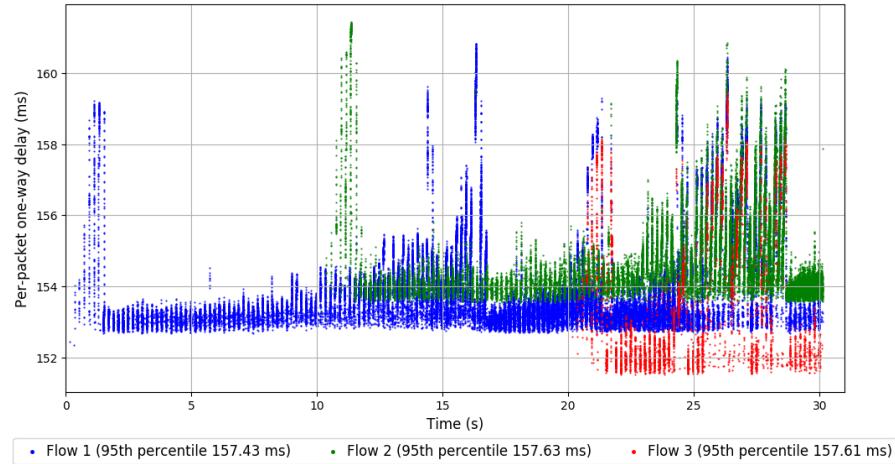
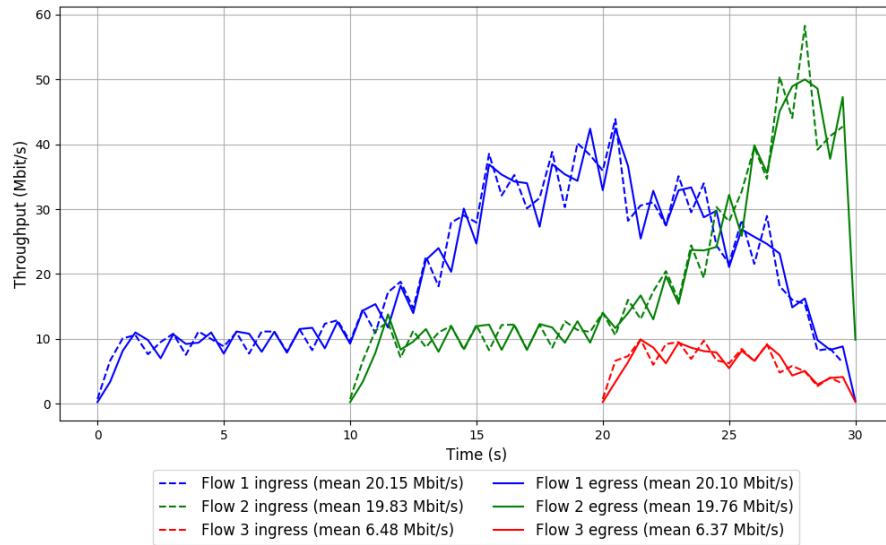


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-17 19:22:42
End at: 2018-04-17 19:23:12
Local clock offset: 10.764 ms
Remote clock offset: -0.911 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.36 Mbit/s
95th percentile per-packet one-way delay: 157.539 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 157.432 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 157.627 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 157.614 ms
Loss rate: 1.59%
```

Run 7: Report of TCP Cubic — Data Link

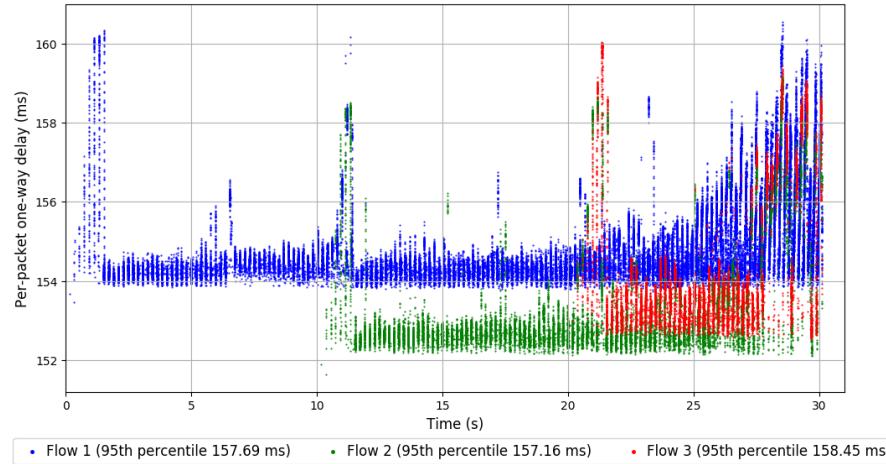
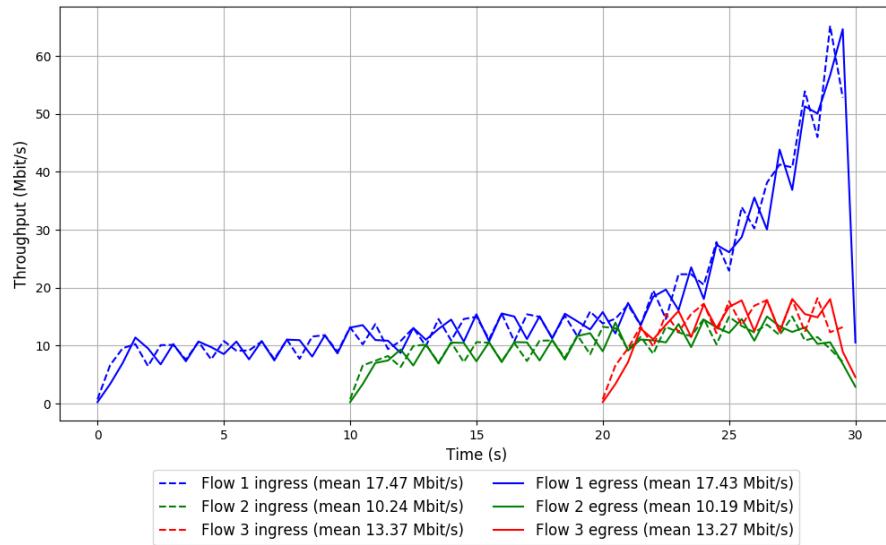


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-17 19:45:31
End at: 2018-04-17 19:46:01
Local clock offset: 6.819 ms
Remote clock offset: -0.758 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 157.771 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 17.43 Mbit/s
95th percentile per-packet one-way delay: 157.687 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 157.159 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 158.446 ms
Loss rate: 0.72%
```

Run 8: Report of TCP Cubic — Data Link

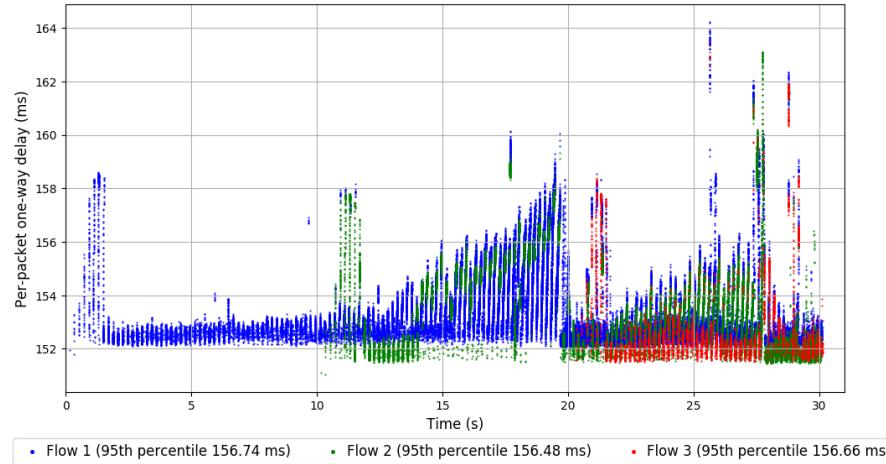
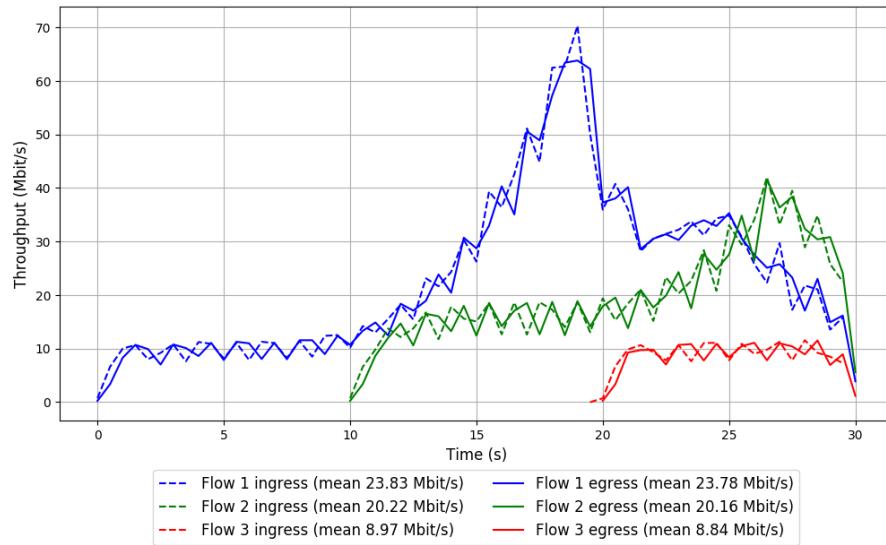


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-17 20:08:28
End at: 2018-04-17 20:08:58
Local clock offset: 2.219 ms
Remote clock offset: -1.496 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 156.637 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 156.735 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 156.482 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 156.657 ms
Loss rate: 1.37%
```

Run 9: Report of TCP Cubic — Data Link

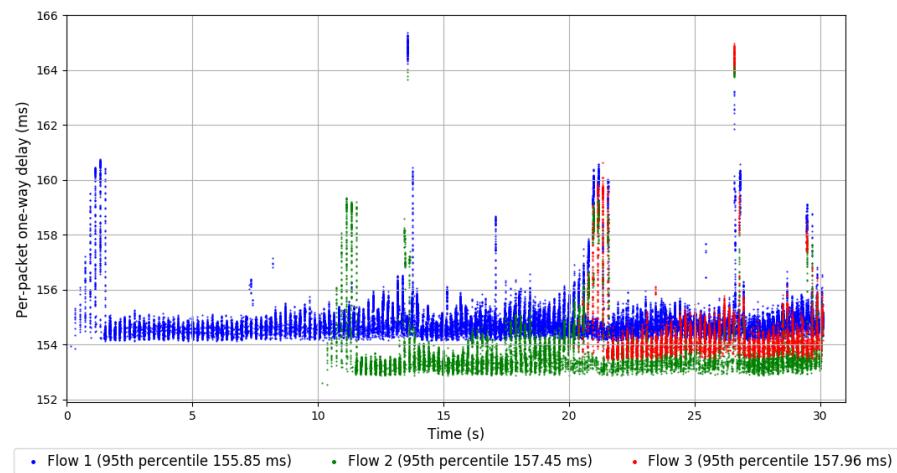
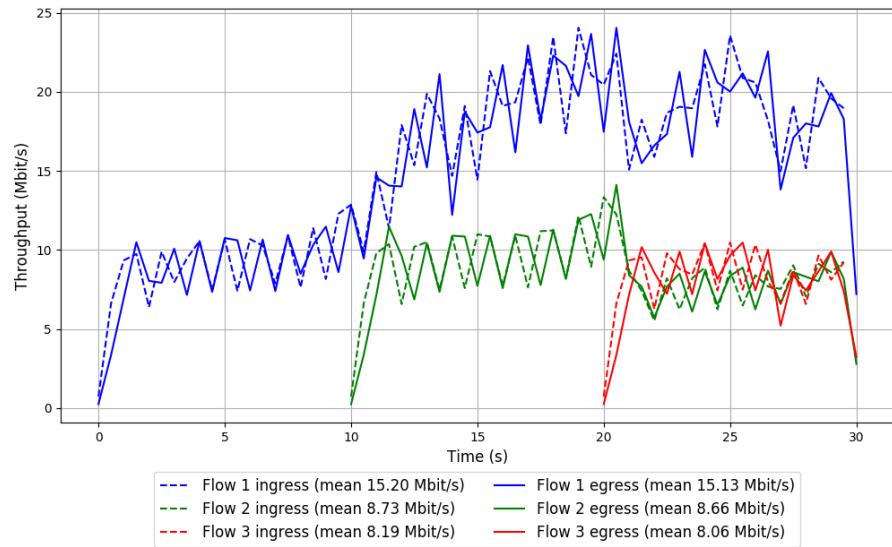


Run 10: Statistics of TCP Cubic

```
Start at: 2018-04-17 20:31:24
End at: 2018-04-17 20:31:54
Local clock offset: 5.11 ms
Remote clock offset: -1.311 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 156.219 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 155.850 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 157.446 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 157.955 ms
Loss rate: 1.51%
```

Run 10: Report of TCP Cubic — Data Link

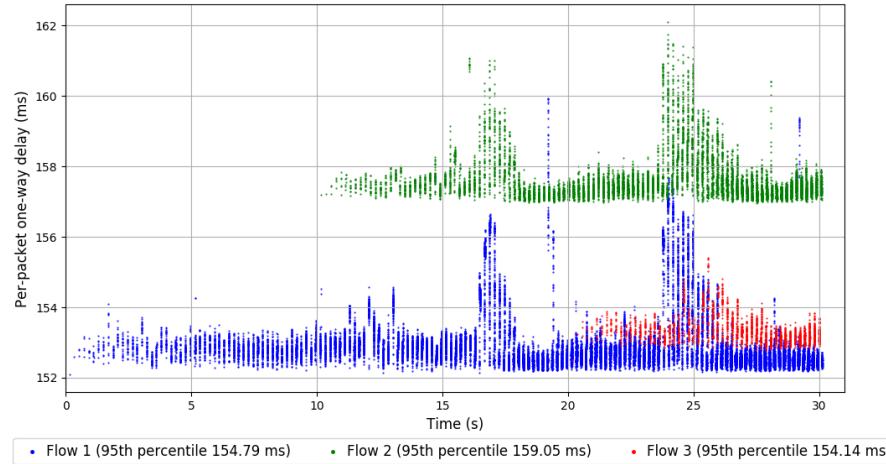
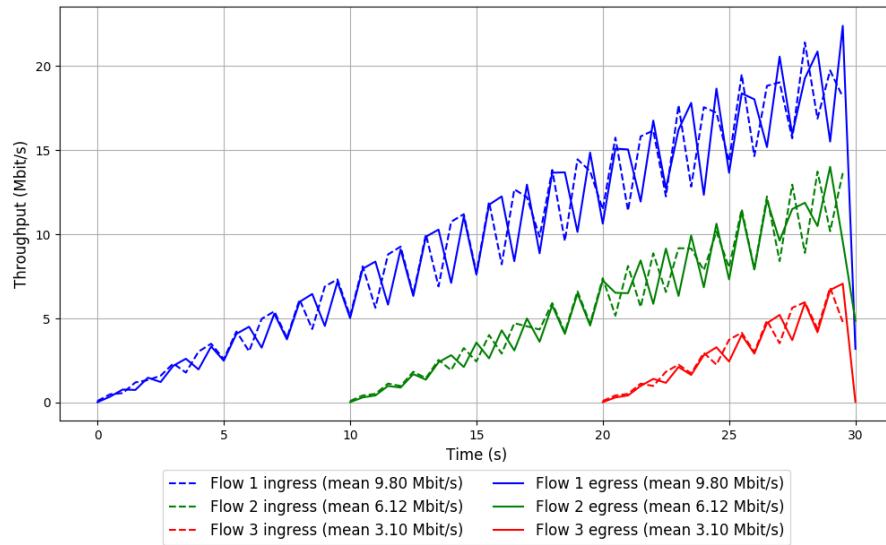


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-04-17 16:58:14
End at: 2018-04-17 16:58:44
Local clock offset: 6.271 ms
Remote clock offset: -2.266 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 157.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 154.789 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 159.049 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 154.143 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

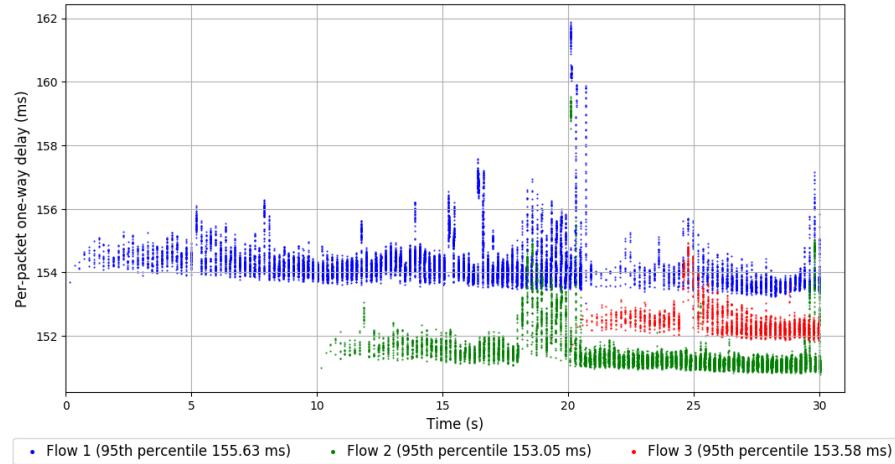
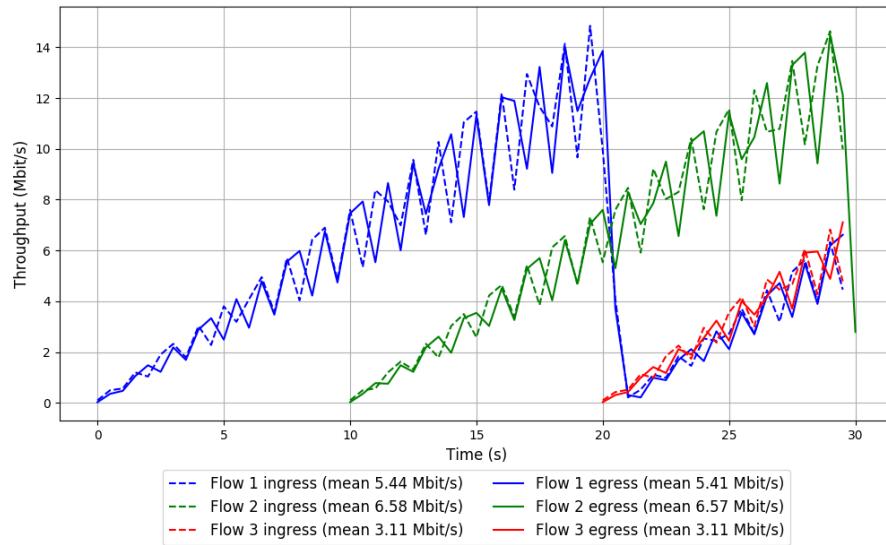


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-17 17:21:09
End at: 2018-04-17 17:21:39
Local clock offset: 5.539 ms
Remote clock offset: 9.143 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 155.072 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 155.626 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 153.048 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 153.577 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

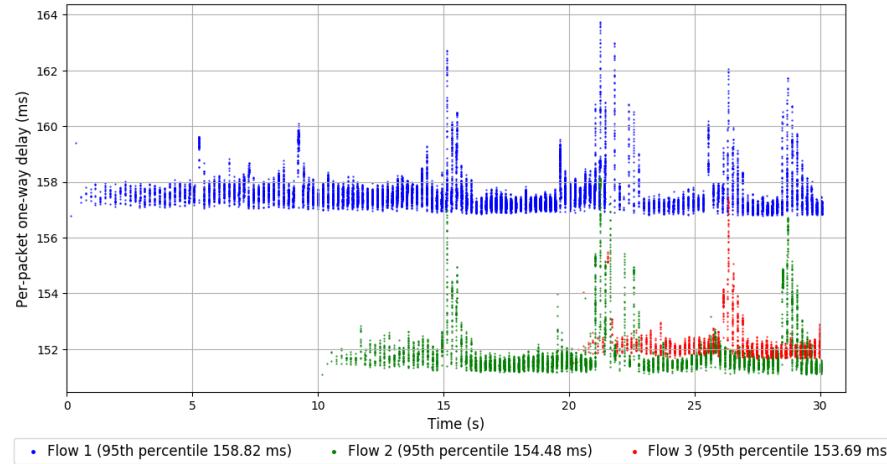
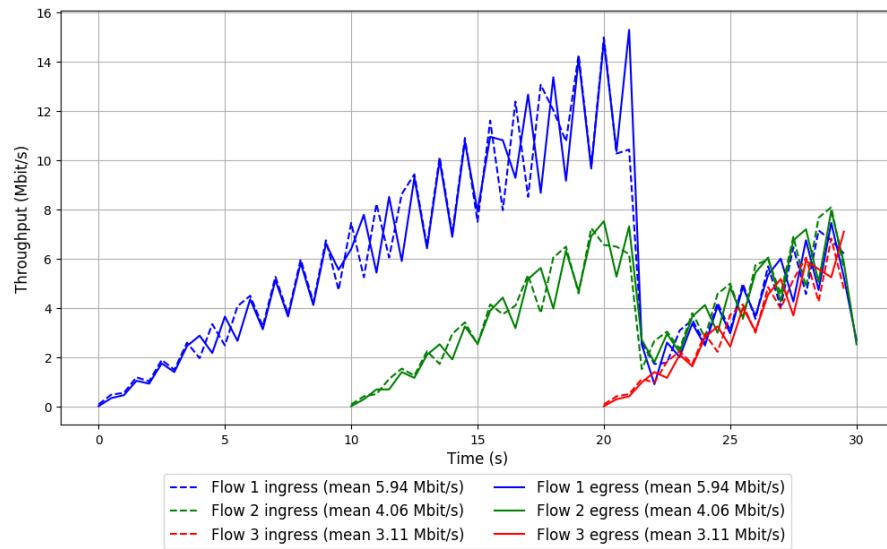


Run 3: Statistics of LEDBAT

```
Start at: 2018-04-17 17:44:08
End at: 2018-04-17 17:44:38
Local clock offset: 7.749 ms
Remote clock offset: 9.228 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 158.302 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 158.823 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 154.481 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 153.690 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

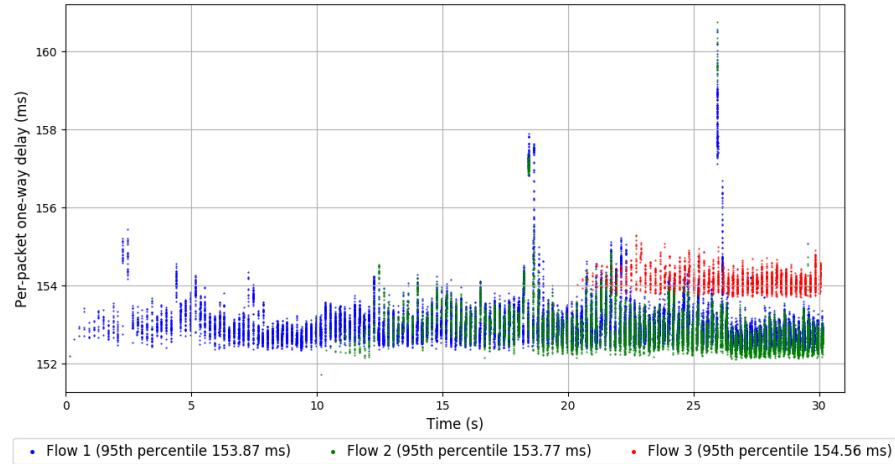
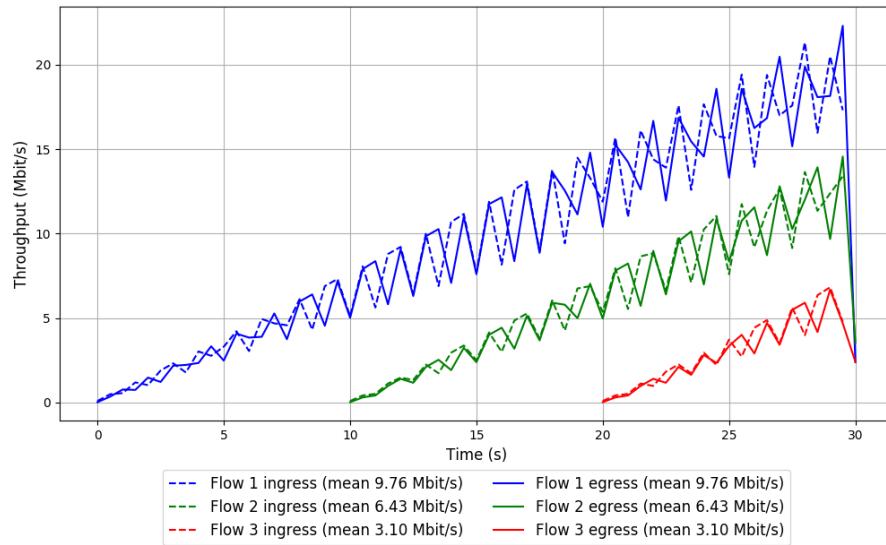


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-17 18:07:03
End at: 2018-04-17 18:07:33
Local clock offset: 5.353 ms
Remote clock offset: -6.87 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.05 Mbit/s
95th percentile per-packet one-way delay: 154.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 153.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 153.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 154.565 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

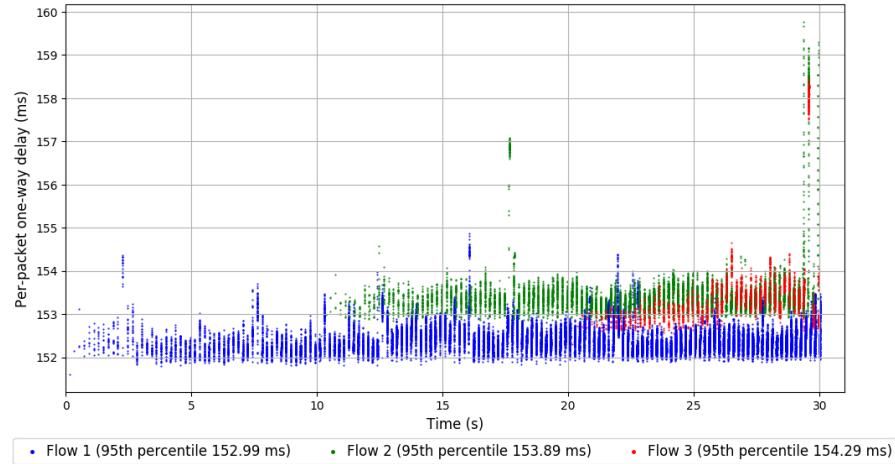
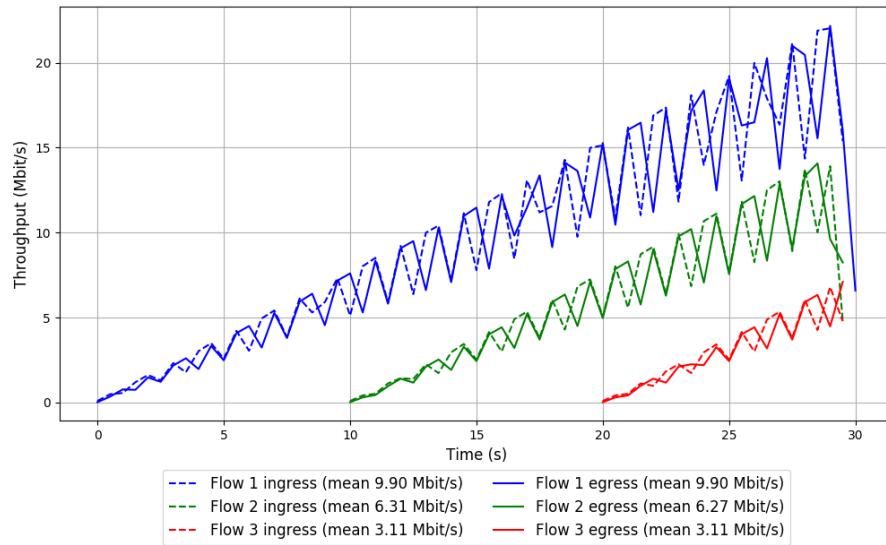


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-17 18:29:43
End at: 2018-04-17 18:30:13
Local clock offset: 3.872 ms
Remote clock offset: 2.117 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.07 Mbit/s
95th percentile per-packet one-way delay: 153.657 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 152.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 153.892 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 154.289 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

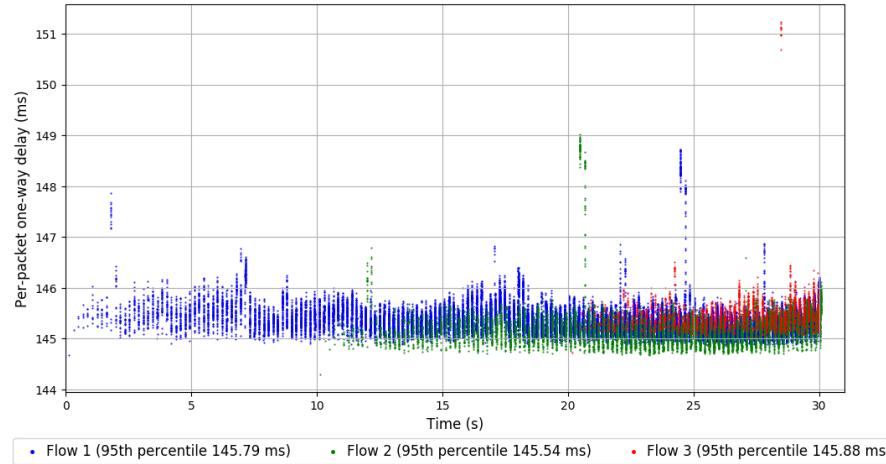
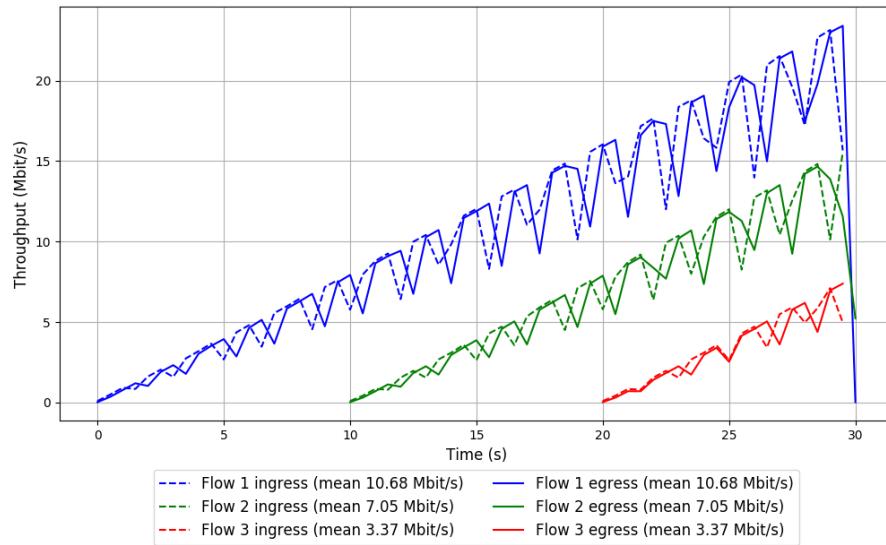


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-17 18:52:49
End at: 2018-04-17 18:53:19
Local clock offset: 5.91 ms
Remote clock offset: 1.909 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 145.762 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 145.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 145.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 145.883 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link

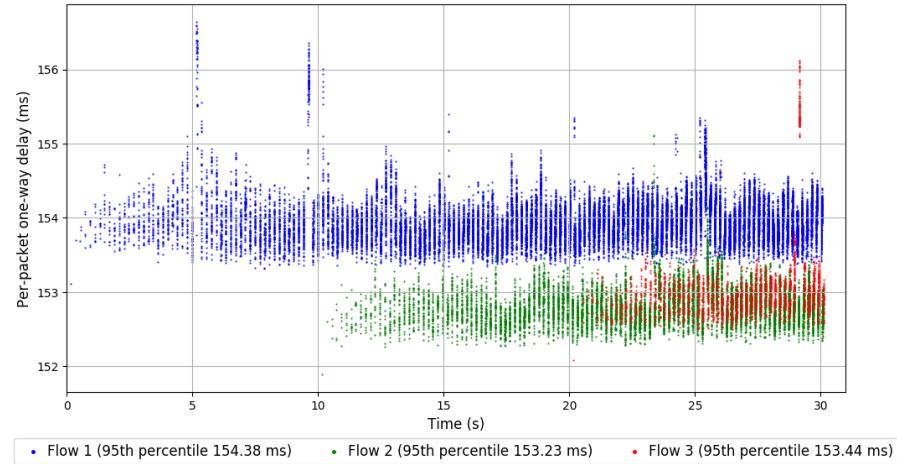
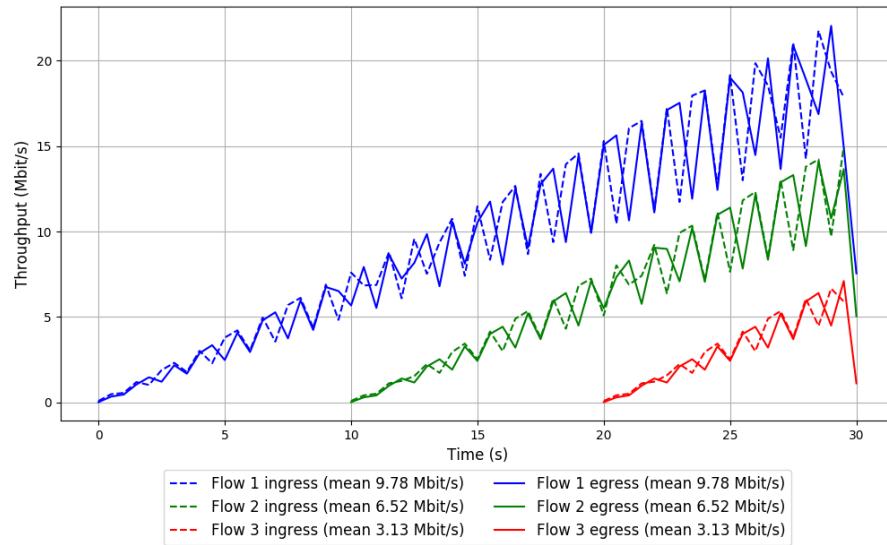


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-17 19:15:51
End at: 2018-04-17 19:16:21
Local clock offset: 9.688 ms
Remote clock offset: -0.768 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 154.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 154.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 153.231 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 153.444 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link

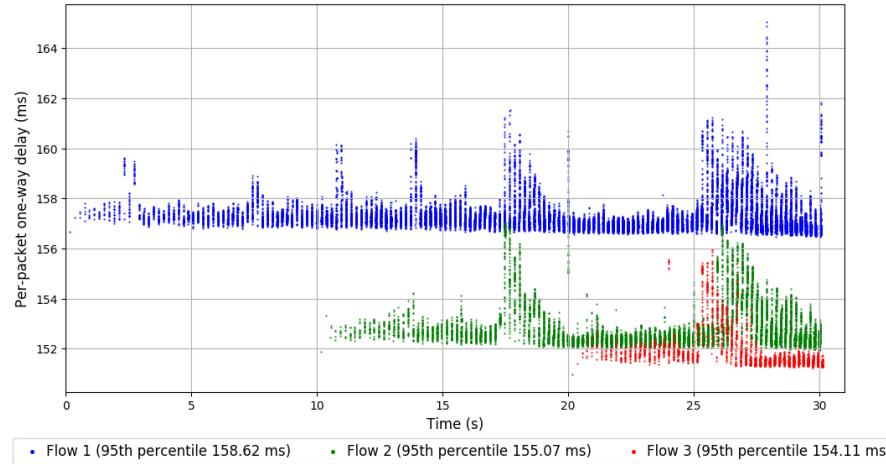
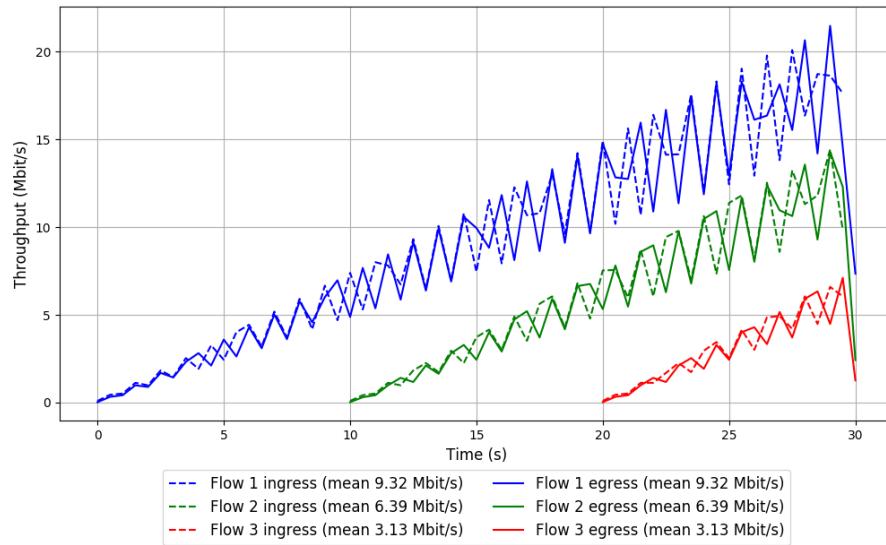


Run 8: Statistics of LEDBAT

```
Start at: 2018-04-17 19:38:44
End at: 2018-04-17 19:39:14
Local clock offset: 11.511 ms
Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.59 Mbit/s
95th percentile per-packet one-way delay: 158.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 158.623 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 155.073 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 154.111 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link

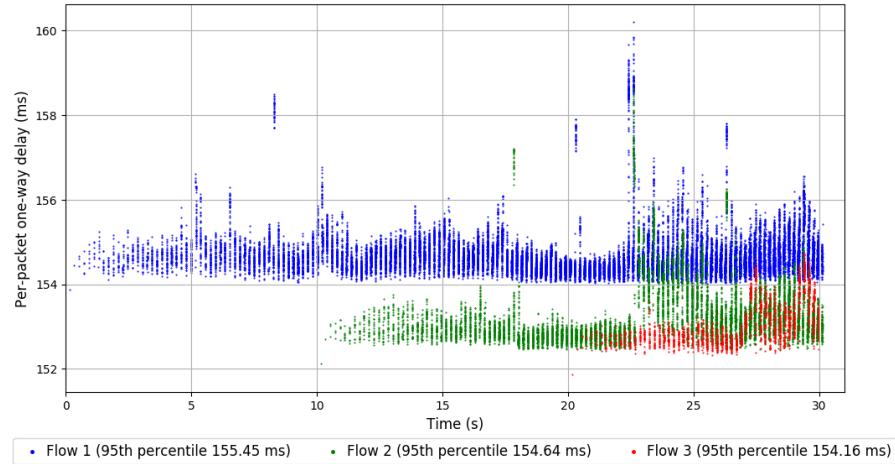
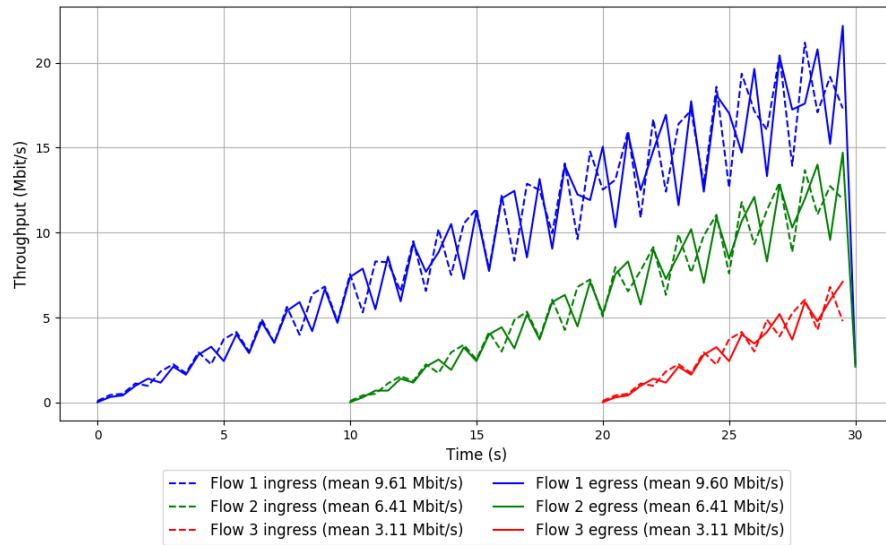


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-17 20:01:42
End at: 2018-04-17 20:02:12
Local clock offset: 3.018 ms
Remote clock offset: -1.893 ms

# Below is generated by plot.py at 2018-04-17 21:07:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 155.311 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 155.453 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 154.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 154.160 ms
Loss rate: 0.00%
```

Run 9: Report of LEDBAT — Data Link

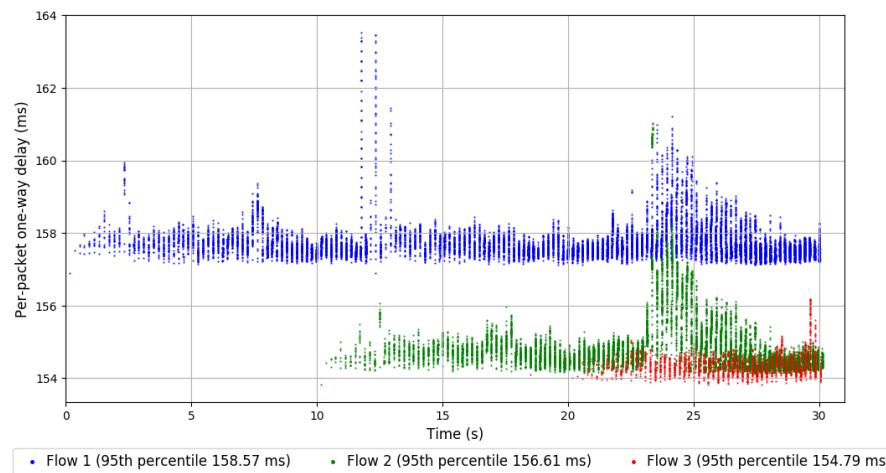
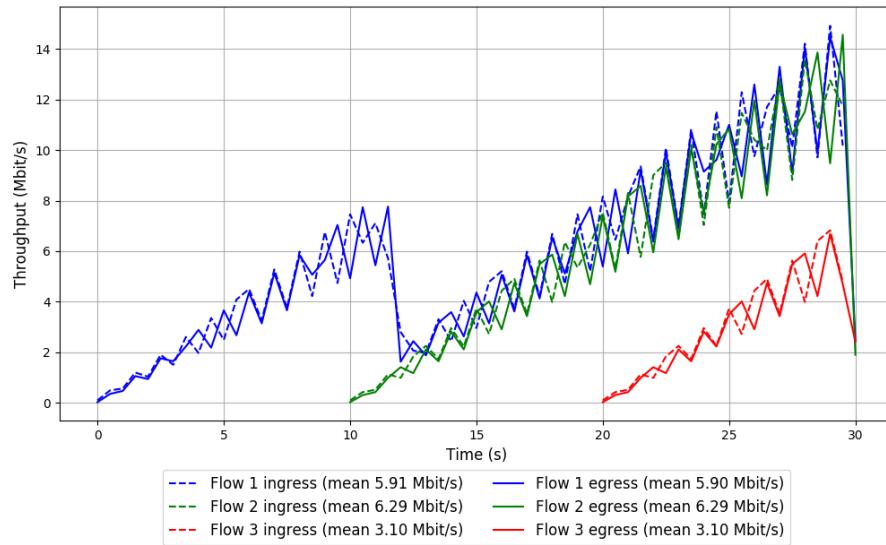


Run 10: Statistics of LEDBAT

```
Start at: 2018-04-17 20:24:31
End at: 2018-04-17 20:25:01
Local clock offset: 4.673 ms
Remote clock offset: -1.17 ms

# Below is generated by plot.py at 2018-04-17 21:07:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 158.228 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 158.572 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 156.607 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 154.787 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

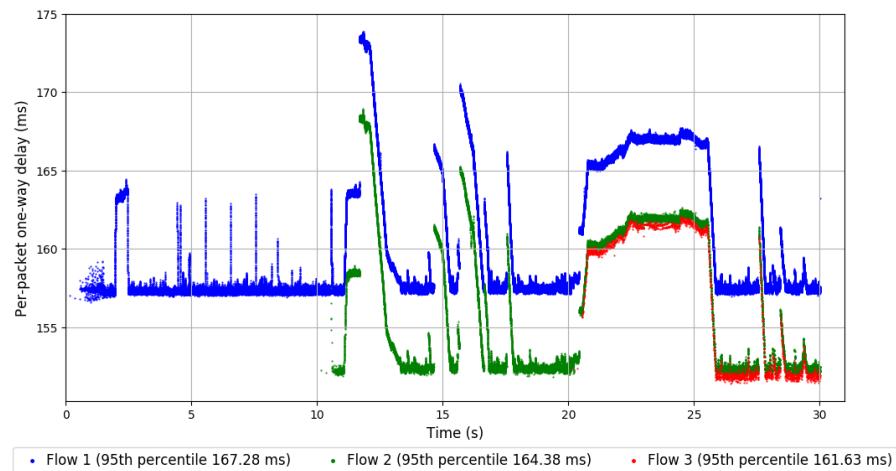
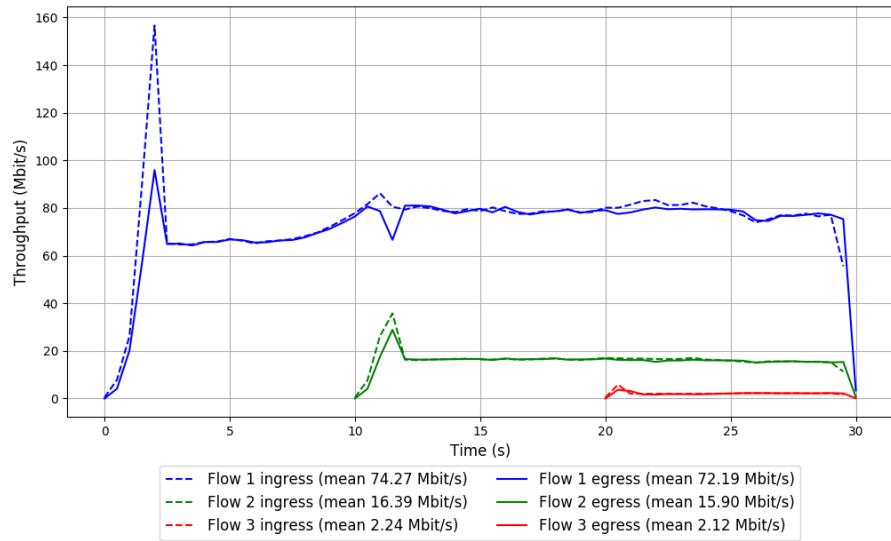


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-17 16:56:53
End at: 2018-04-17 16:57:23
Local clock offset: 6.379 ms
Remote clock offset: -2.06 ms

# Below is generated by plot.py at 2018-04-17 21:08:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.46 Mbit/s
95th percentile per-packet one-way delay: 167.253 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 72.19 Mbit/s
95th percentile per-packet one-way delay: 167.283 ms
Loss rate: 2.80%
-- Flow 2:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 164.382 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 161.626 ms
Loss rate: 5.35%
```

Run 1: Report of PCC-Allegro — Data Link

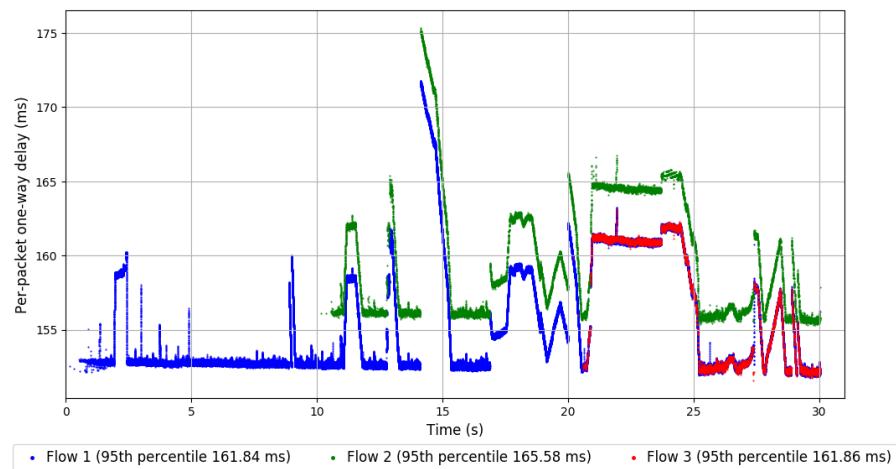
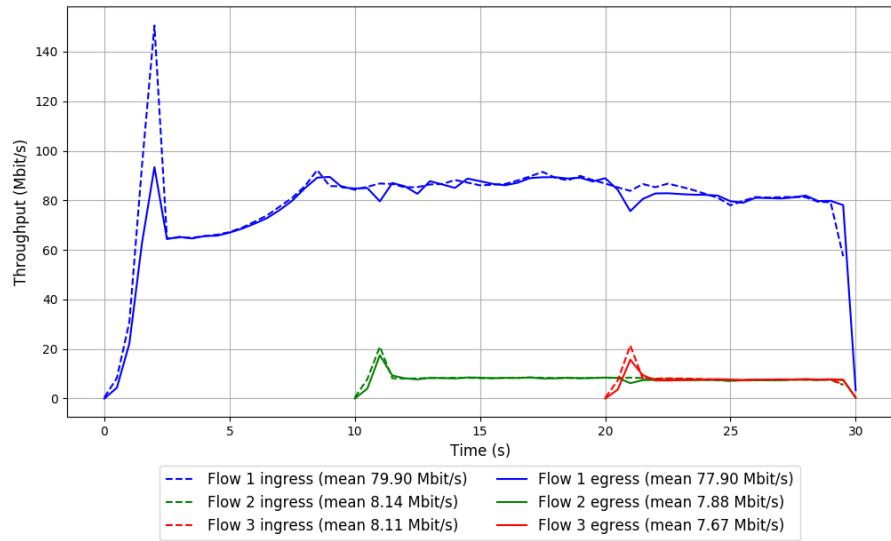


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-17 17:19:49
End at: 2018-04-17 17:20:19
Local clock offset: 5.615 ms
Remote clock offset: 7.012 ms

# Below is generated by plot.py at 2018-04-17 21:08:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 162.091 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 77.90 Mbit/s
95th percentile per-packet one-way delay: 161.843 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 165.578 ms
Loss rate: 3.16%
-- Flow 3:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 161.856 ms
Loss rate: 5.43%
```

Run 2: Report of PCC-Allegro — Data Link

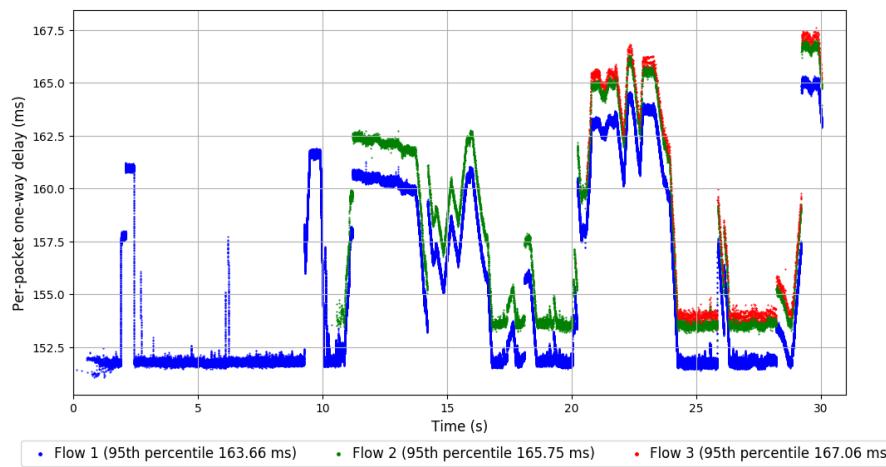
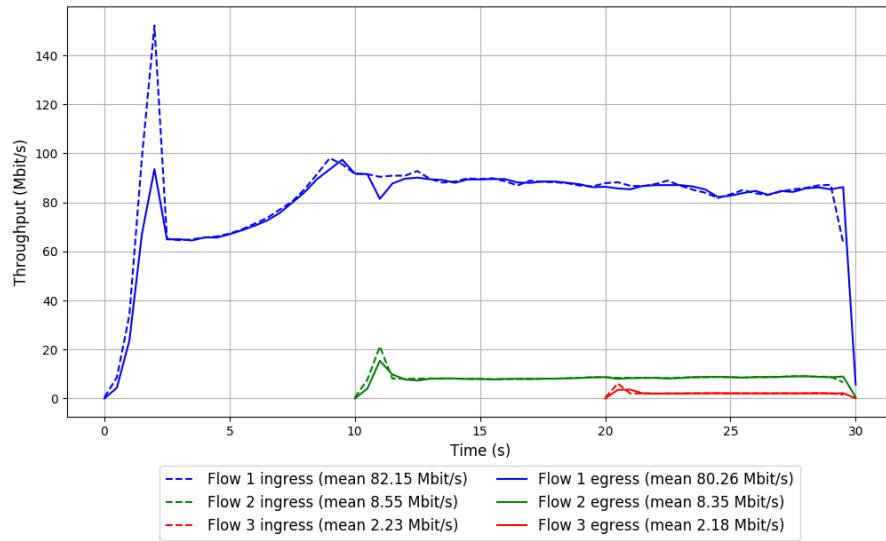


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-17 17:42:48
End at: 2018-04-17 17:43:18
Local clock offset: 7.64 ms
Remote clock offset: 8.69 ms

# Below is generated by plot.py at 2018-04-17 21:08:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 163.831 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 80.26 Mbit/s
95th percentile per-packet one-way delay: 163.658 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 165.747 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 167.062 ms
Loss rate: 1.97%
```

Run 3: Report of PCC-Allegro — Data Link

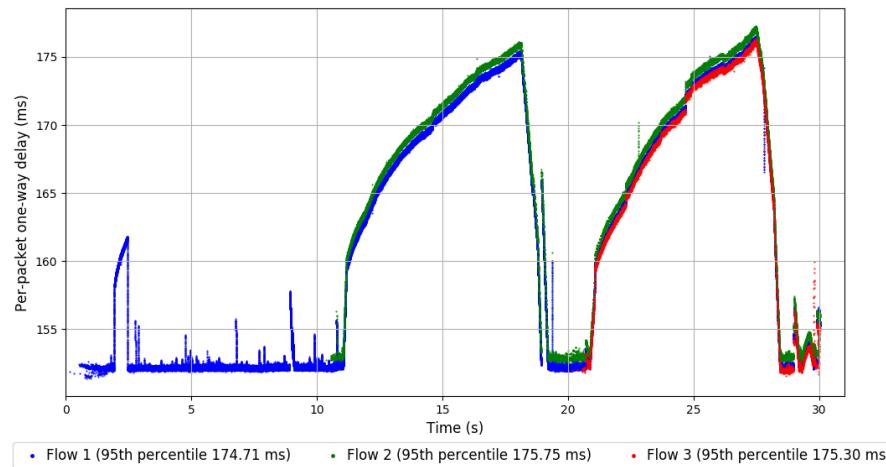
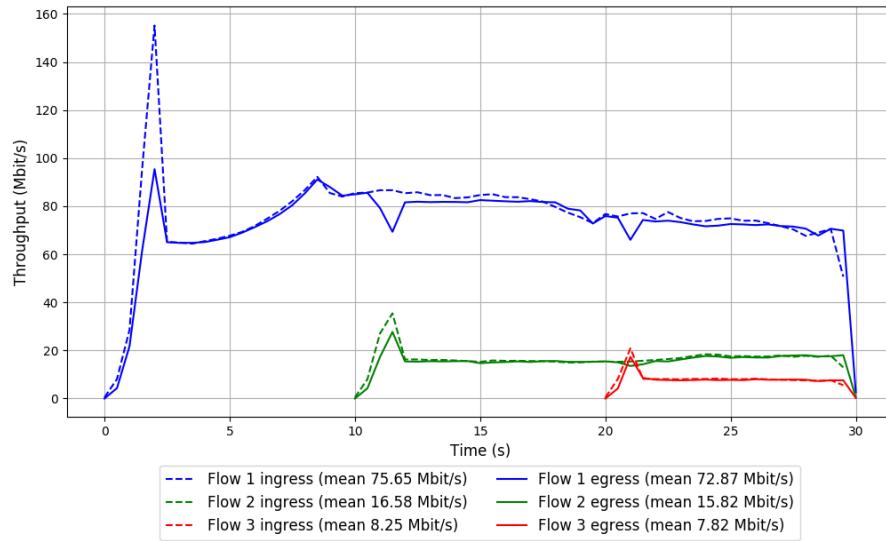


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-17 18:05:43
End at: 2018-04-17 18:06:13
Local clock offset: 5.598 ms
Remote clock offset: -6.806 ms

# Below is generated by plot.py at 2018-04-17 21:08:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.97 Mbit/s
95th percentile per-packet one-way delay: 174.929 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 72.87 Mbit/s
95th percentile per-packet one-way delay: 174.711 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 175.751 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 175.301 ms
Loss rate: 5.18%
```

Run 4: Report of PCC-Allegro — Data Link

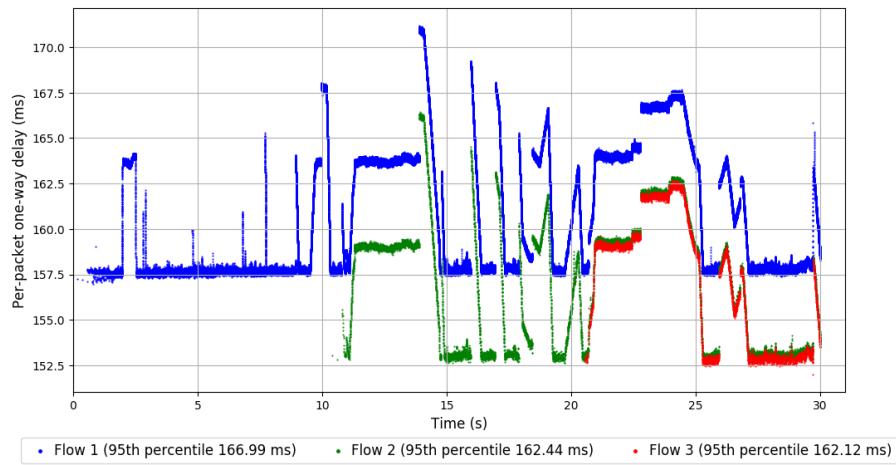
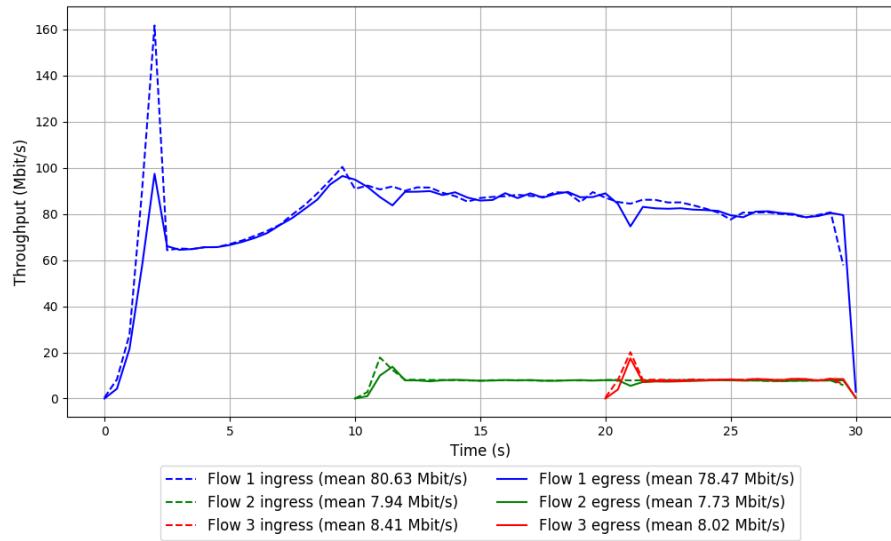


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-17 18:28:23
End at: 2018-04-17 18:28:53
Local clock offset: 3.871 ms
Remote clock offset: 2.265 ms

# Below is generated by plot.py at 2018-04-17 21:08:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 166.849 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 166.987 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 162.442 ms
Loss rate: 3.84%
-- Flow 3:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 162.120 ms
Loss rate: 4.72%
```

Run 5: Report of PCC-Allegro — Data Link

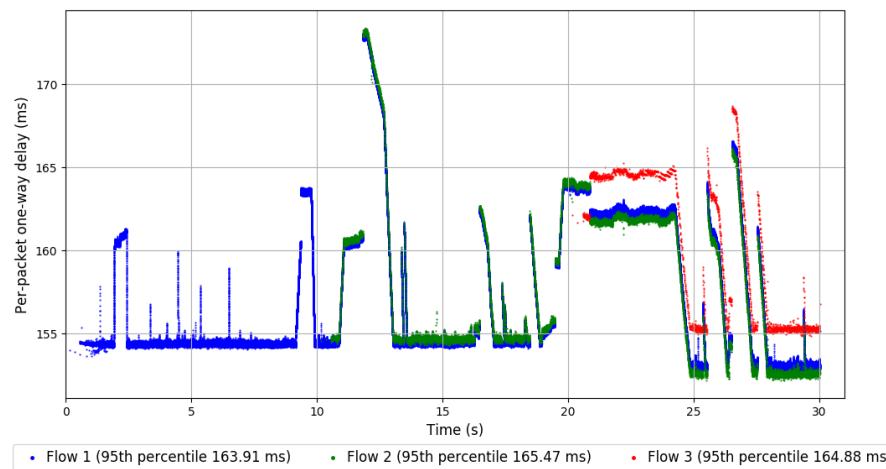
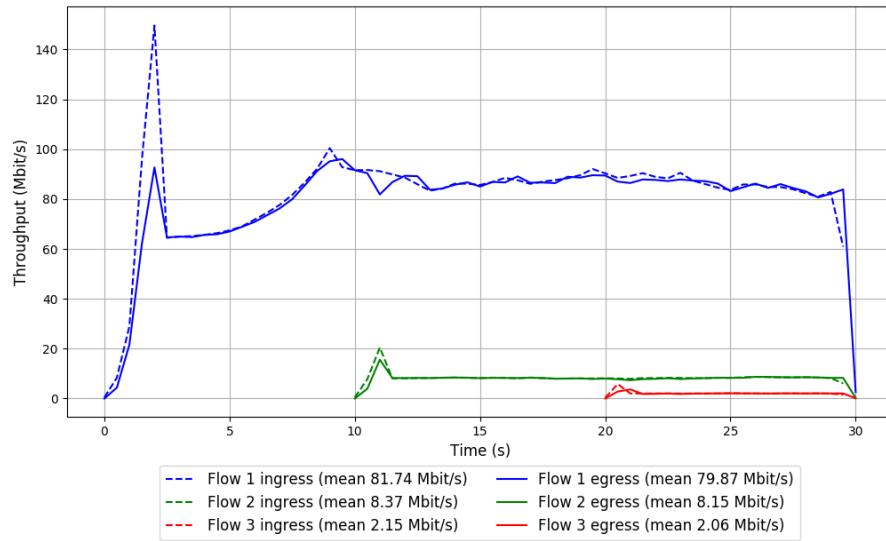


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-17 18:51:24
End at: 2018-04-17 18:51:54
Local clock offset: 5.927 ms
Remote clock offset: 1.857 ms

# Below is generated by plot.py at 2018-04-17 21:08:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.97 Mbit/s
95th percentile per-packet one-way delay: 164.029 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 163.910 ms
Loss rate: 2.29%
-- Flow 2:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 165.466 ms
Loss rate: 2.65%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 164.884 ms
Loss rate: 4.01%
```

Run 6: Report of PCC-Allegro — Data Link

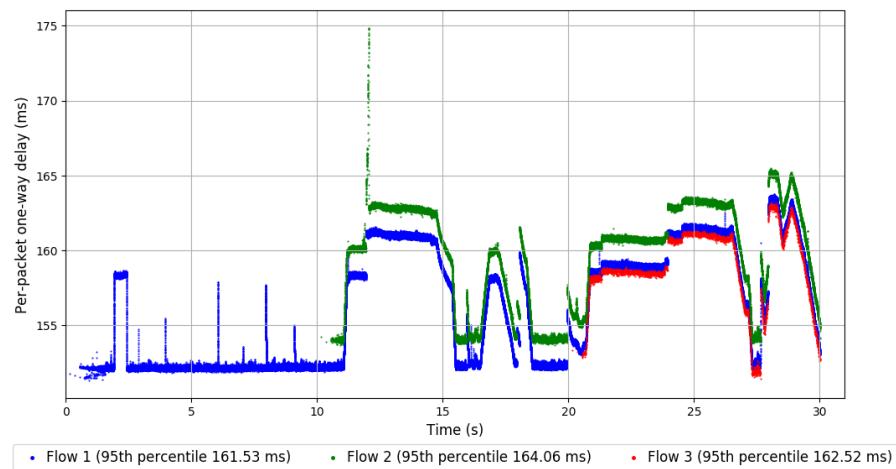
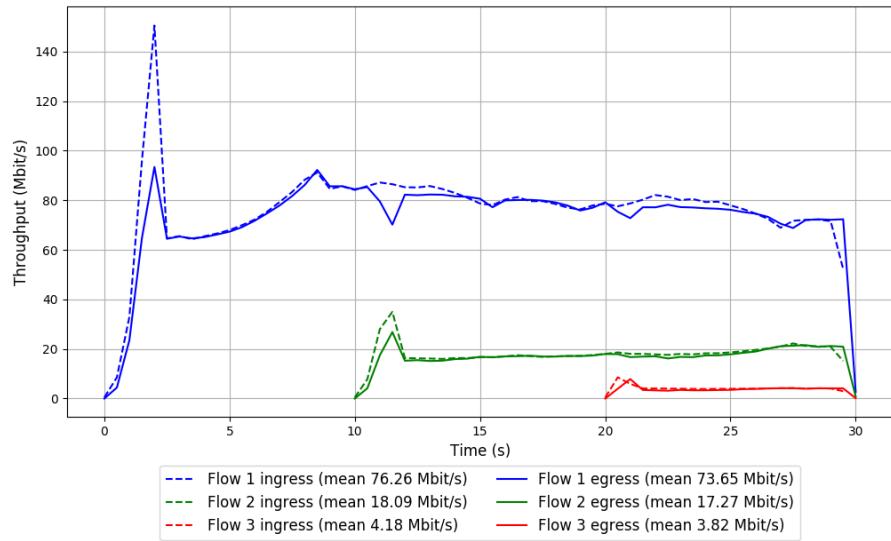


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-17 19:14:30
End at: 2018-04-17 19:15:00
Local clock offset: 9.543 ms
Remote clock offset: -0.599 ms

# Below is generated by plot.py at 2018-04-17 21:08:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 162.814 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 161.532 ms
Loss rate: 3.42%
-- Flow 2:
Average throughput: 17.27 Mbit/s
95th percentile per-packet one-way delay: 164.058 ms
Loss rate: 4.55%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 162.518 ms
Loss rate: 8.50%
```

Run 7: Report of PCC-Allegro — Data Link

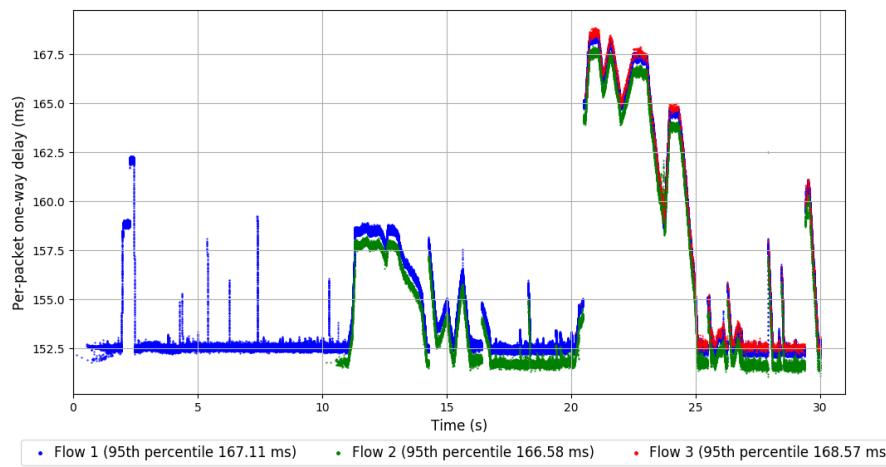
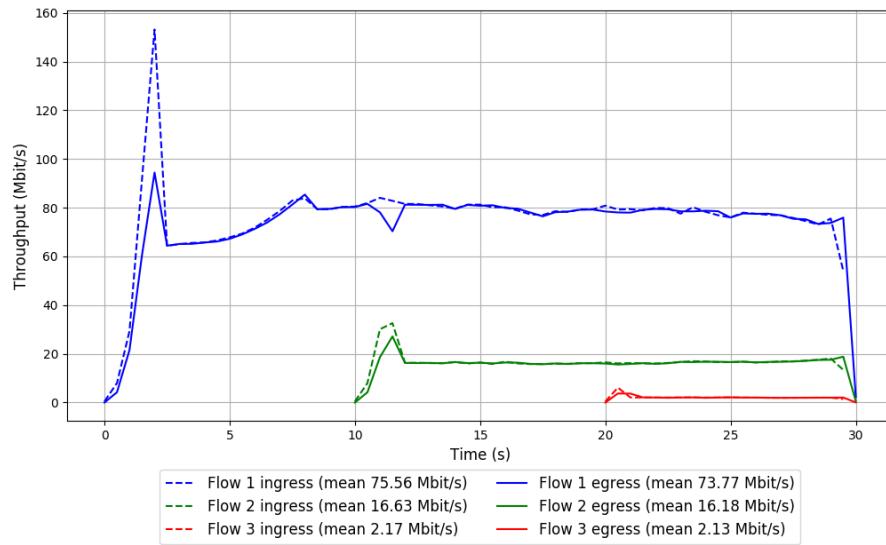


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-17 19:37:24
End at: 2018-04-17 19:37:54
Local clock offset: 12.222 ms
Remote clock offset: -2.026 ms

# Below is generated by plot.py at 2018-04-17 21:08:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 167.058 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 73.77 Mbit/s
95th percentile per-packet one-way delay: 167.108 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 166.579 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 168.569 ms
Loss rate: 1.90%
```

Run 8: Report of PCC-Allegro — Data Link

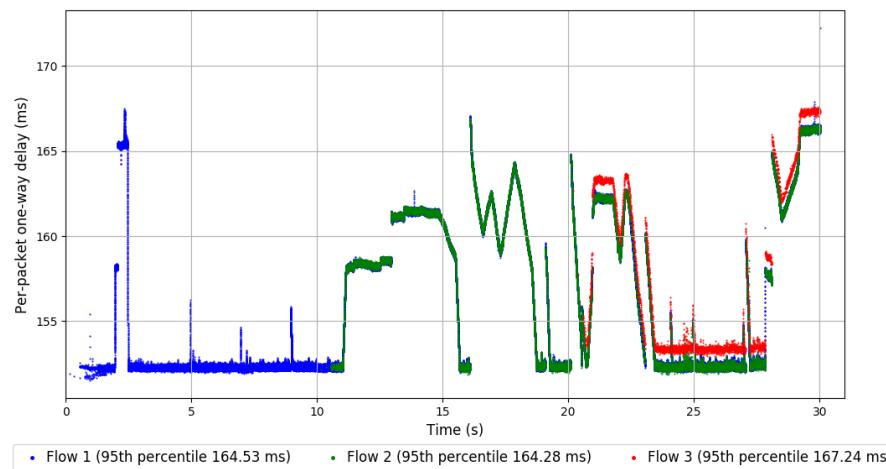
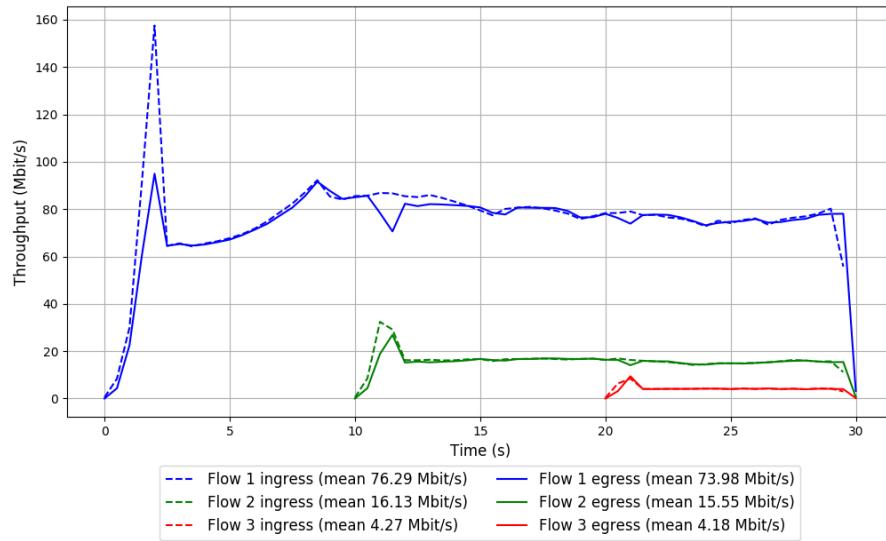


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-17 20:00:21
End at: 2018-04-17 20:00:51
Local clock offset: 3.268 ms
Remote clock offset: -1.766 ms

# Below is generated by plot.py at 2018-04-17 21:10:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 164.618 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 73.98 Mbit/s
95th percentile per-packet one-way delay: 164.526 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 164.280 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 167.242 ms
Loss rate: 2.01%
```

Run 9: Report of PCC-Allegro — Data Link

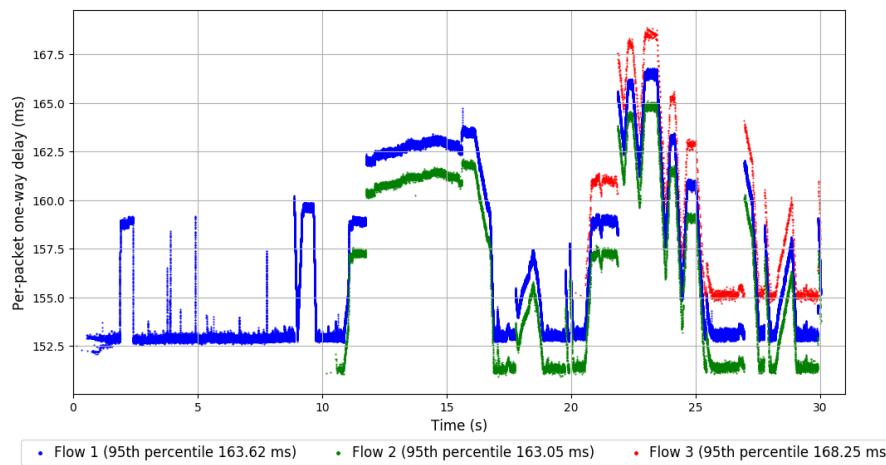
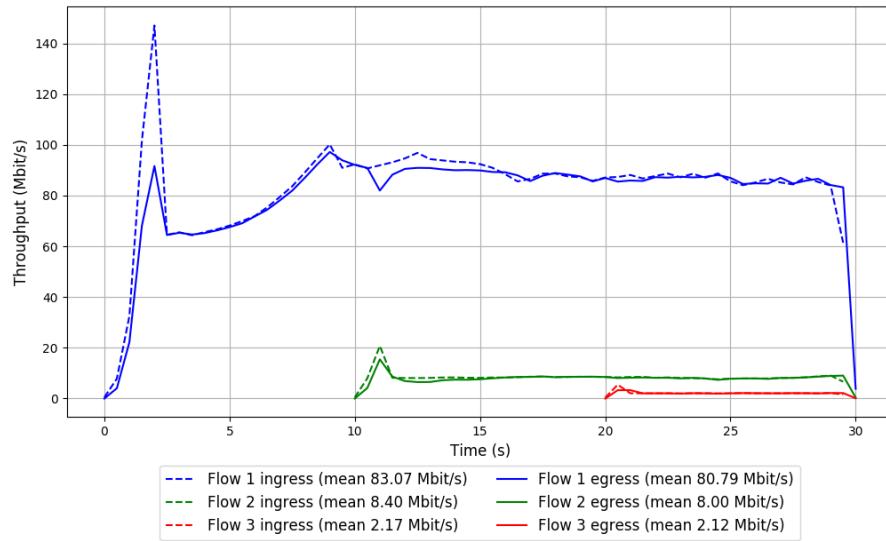


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-17 20:23:10
End at: 2018-04-17 20:23:40
Local clock offset: 4.626 ms
Remote clock offset: -1.212 ms

# Below is generated by plot.py at 2018-04-17 21:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 163.648 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 80.79 Mbit/s
95th percentile per-packet one-way delay: 163.622 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 163.053 ms
Loss rate: 4.75%
-- Flow 3:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 168.252 ms
Loss rate: 2.23%
```

Run 10: Report of PCC-Allegro — Data Link

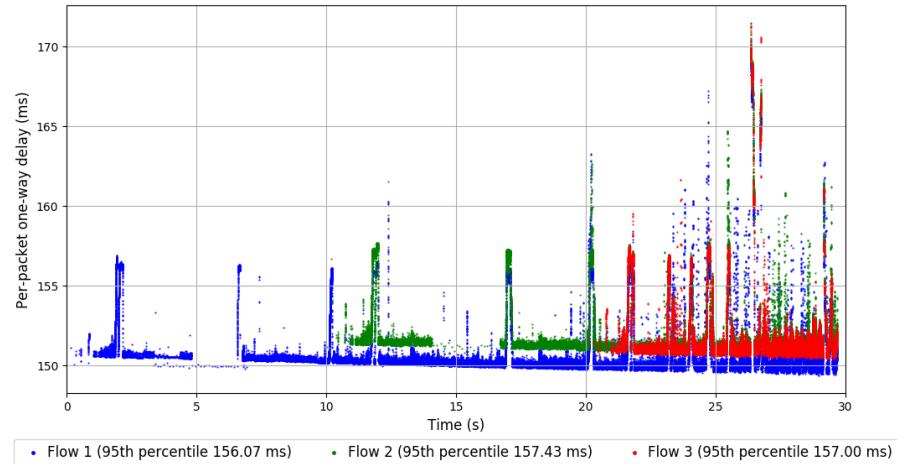
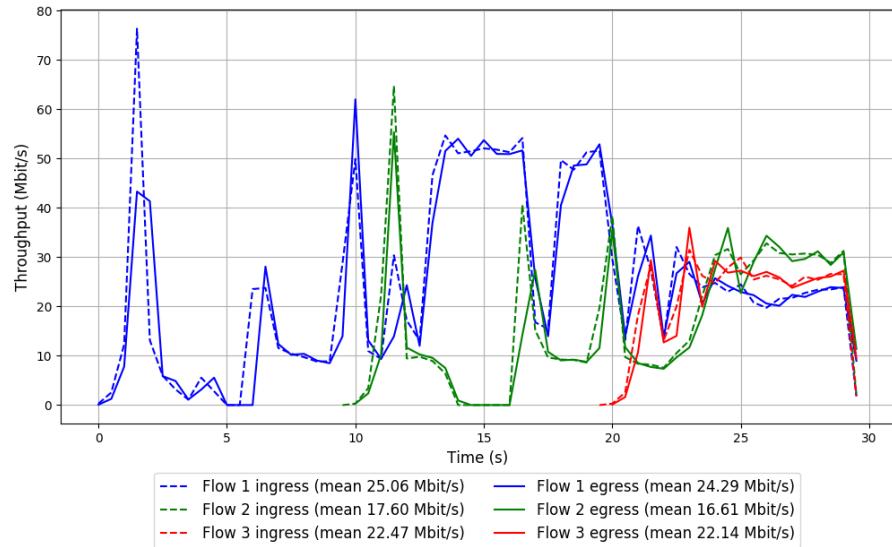


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2018-04-17 17:15:50
End at: 2018-04-17 17:16:20
Local clock offset: 5.419 ms
Remote clock offset: -1.868 ms

# Below is generated by plot.py at 2018-04-17 21:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.53 Mbit/s
95th percentile per-packet one-way delay: 156.799 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 156.069 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 16.61 Mbit/s
95th percentile per-packet one-way delay: 157.428 ms
Loss rate: 5.61%
-- Flow 3:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 157.001 ms
Loss rate: 1.50%
```

Run 1: Report of QUIC Cubic — Data Link

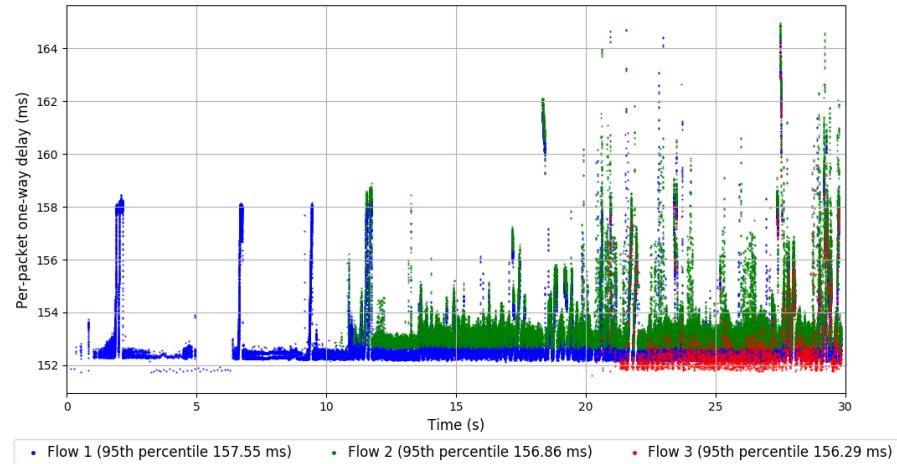
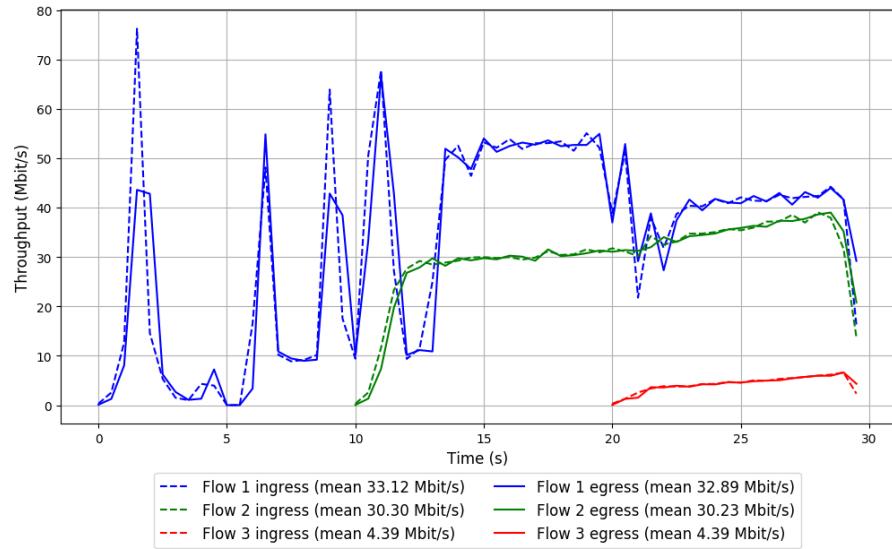


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-17 17:38:48
End at: 2018-04-17 17:39:18
Local clock offset: 7.505 ms
Remote clock offset: 6.762 ms

# Below is generated by plot.py at 2018-04-17 21:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.34 Mbit/s
95th percentile per-packet one-way delay: 157.309 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 157.549 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 156.864 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 156.294 ms
Loss rate: 0.08%
```

Run 2: Report of QUIC Cubic — Data Link

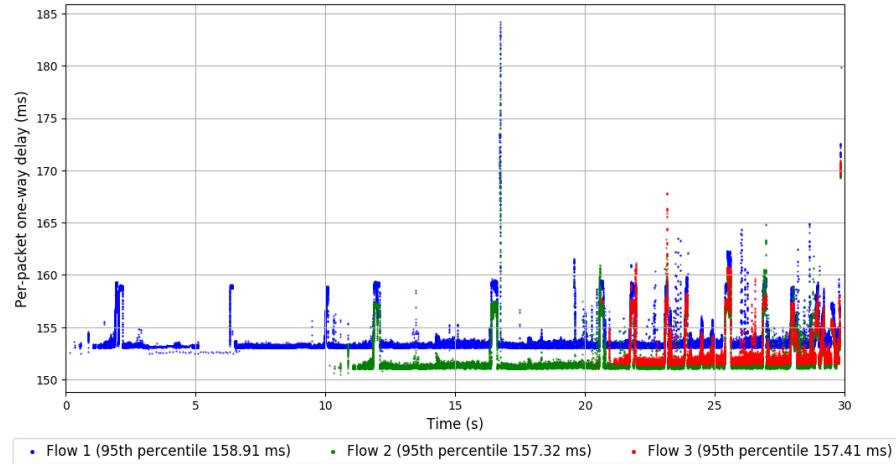
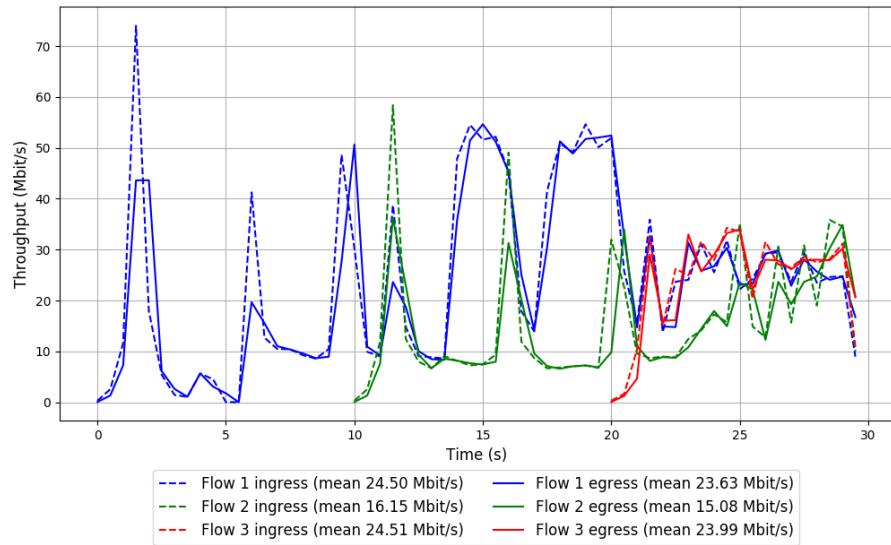


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-17 18:01:44
End at: 2018-04-17 18:02:14
Local clock offset: 6.197 ms
Remote clock offset: -6.544 ms

# Below is generated by plot.py at 2018-04-17 21:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 158.783 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 158.908 ms
Loss rate: 3.50%
-- Flow 2:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 157.323 ms
Loss rate: 6.53%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 157.406 ms
Loss rate: 1.94%
```

Run 3: Report of QUIC Cubic — Data Link

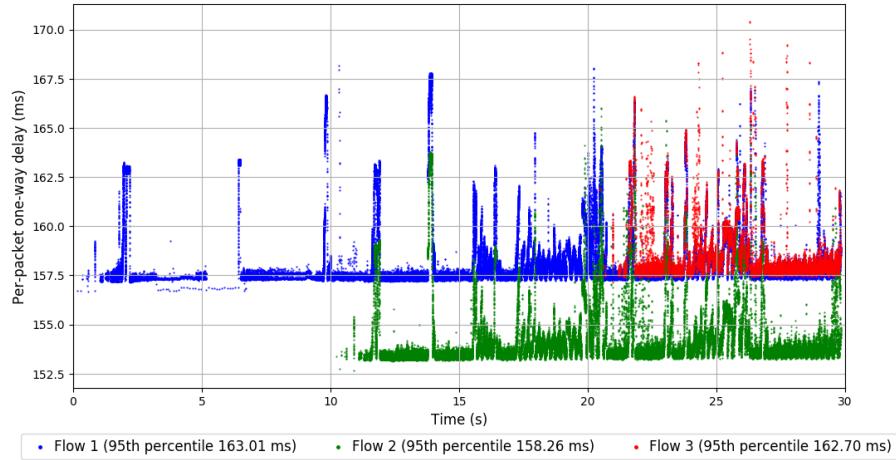
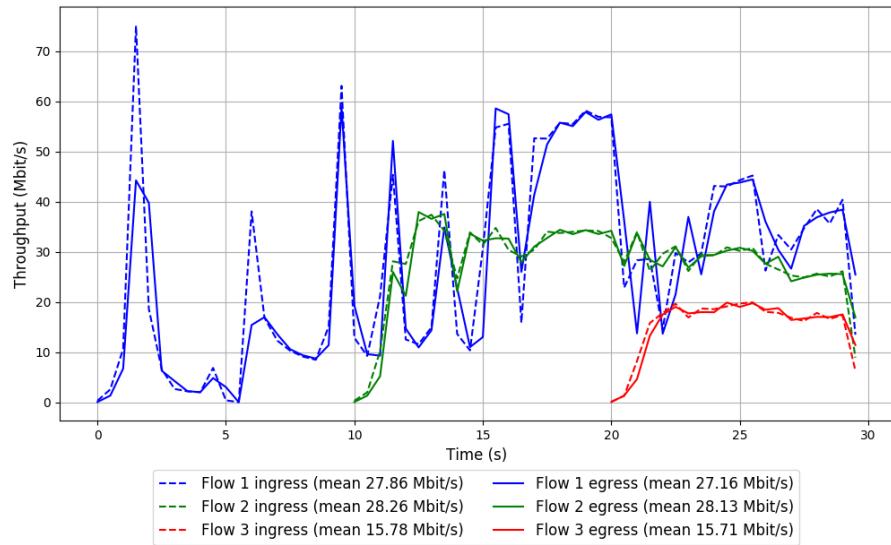


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-17 18:24:24
End at: 2018-04-17 18:24:54
Local clock offset: 4.077 ms
Remote clock offset: 3.011 ms

# Below is generated by plot.py at 2018-04-17 21:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.83 Mbit/s
95th percentile per-packet one-way delay: 162.654 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 163.015 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 158.264 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 162.696 ms
Loss rate: 0.47%
```

Run 4: Report of QUIC Cubic — Data Link

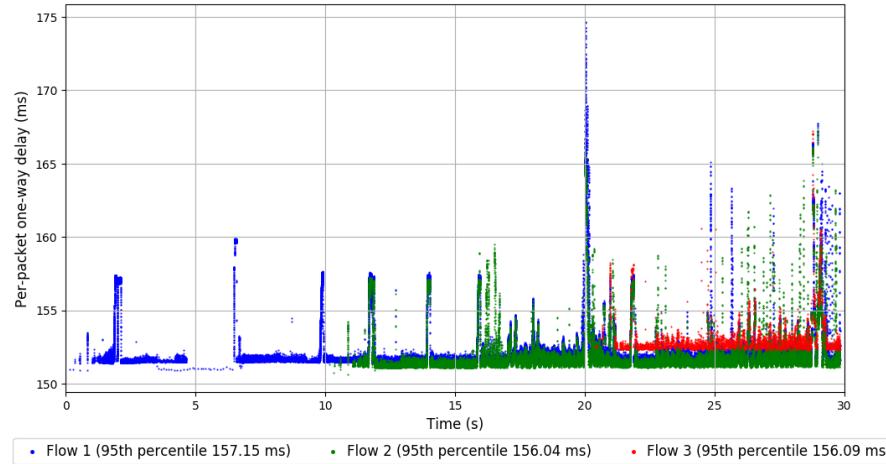
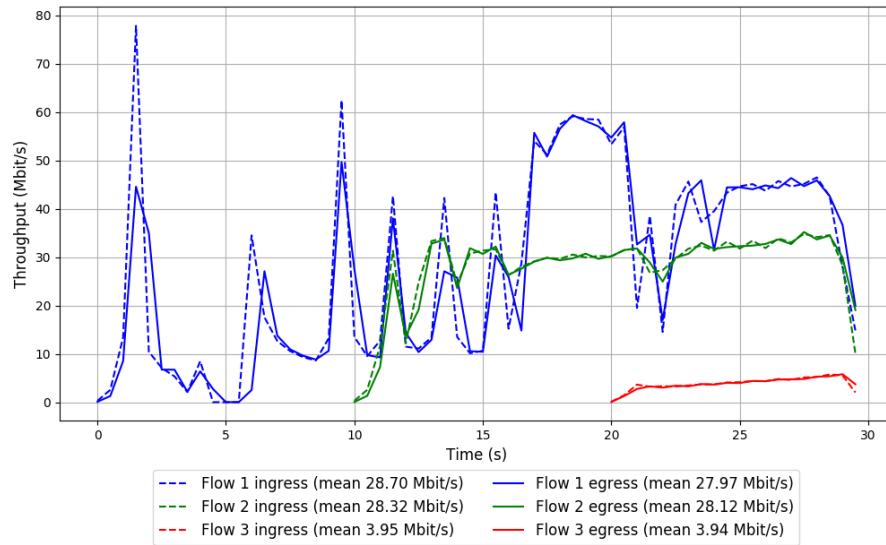


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-17 18:47:25
End at: 2018-04-17 18:47:55
Local clock offset: 6.026 ms
Remote clock offset: 1.598 ms

# Below is generated by plot.py at 2018-04-17 21:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.86 Mbit/s
95th percentile per-packet one-way delay: 156.988 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 27.97 Mbit/s
95th percentile per-packet one-way delay: 157.154 ms
Loss rate: 2.55%
-- Flow 2:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 156.037 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 156.088 ms
Loss rate: 0.36%
```

Run 5: Report of QUIC Cubic — Data Link

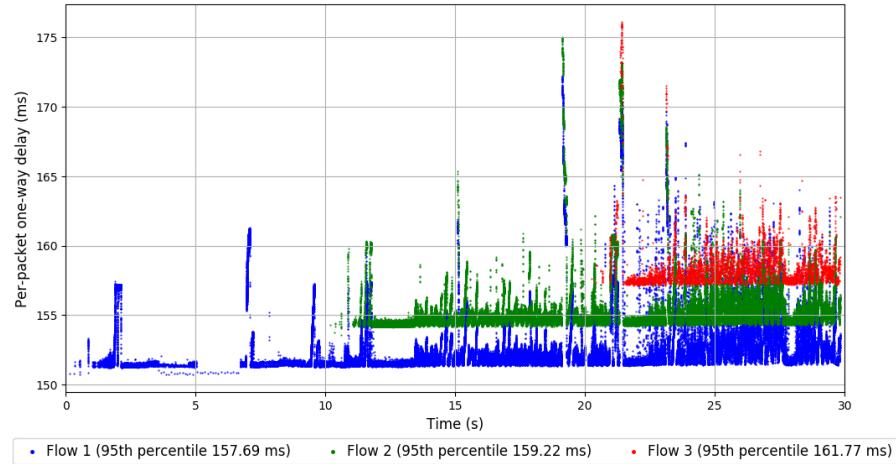
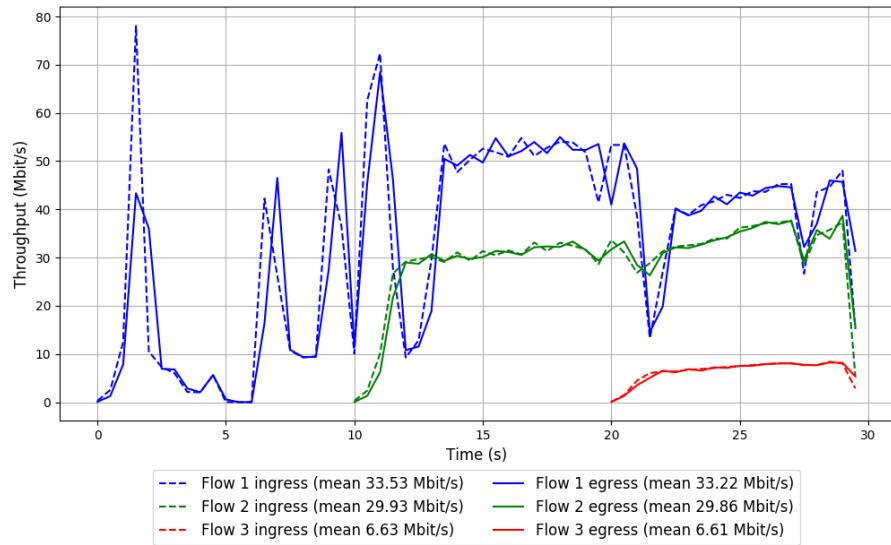


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-17 19:10:30
End at: 2018-04-17 19:11:00
Local clock offset: 8.402 ms
Remote clock offset: -0.472 ms

# Below is generated by plot.py at 2018-04-17 21:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 159.180 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 157.687 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 159.216 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 161.767 ms
Loss rate: 0.16%
```

Run 6: Report of QUIC Cubic — Data Link

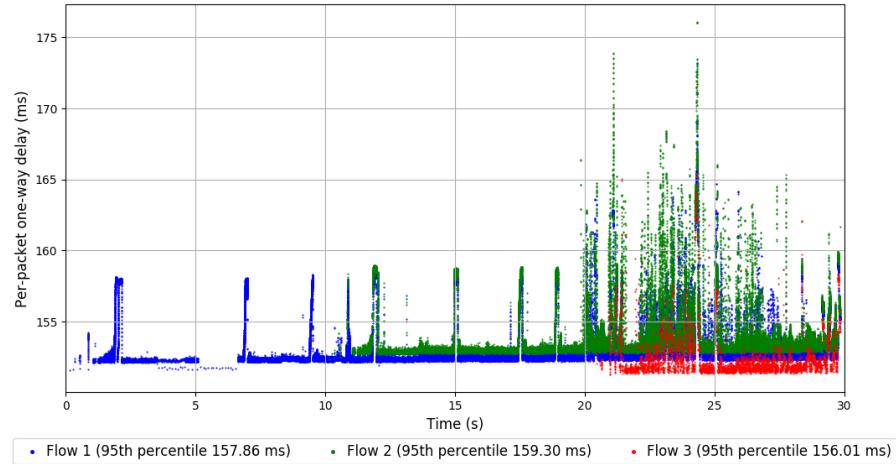
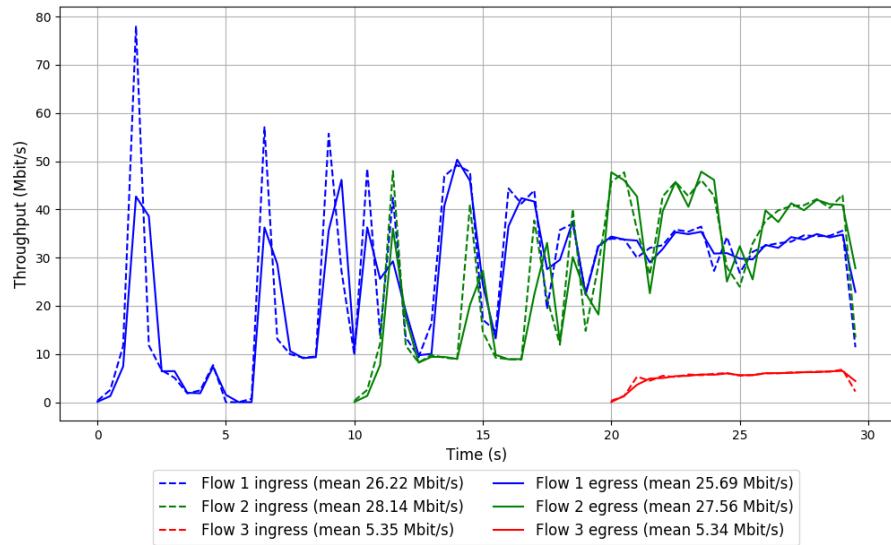


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-17 19:33:24
End at: 2018-04-17 19:38:54
Local clock offset: 11.989 ms
Remote clock offset: -1.299 ms

# Below is generated by plot.py at 2018-04-17 21:10:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 158.455 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 157.863 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 159.300 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 156.010 ms
Loss rate: 0.15%
```

Run 7: Report of QUIC Cubic — Data Link

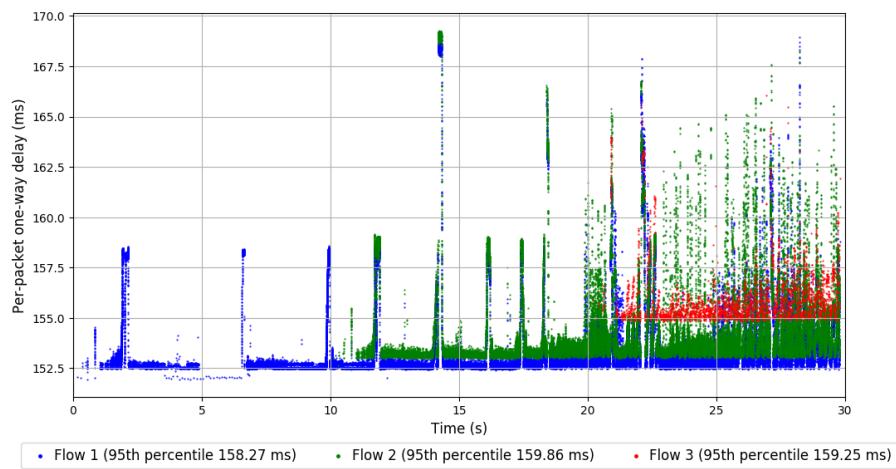
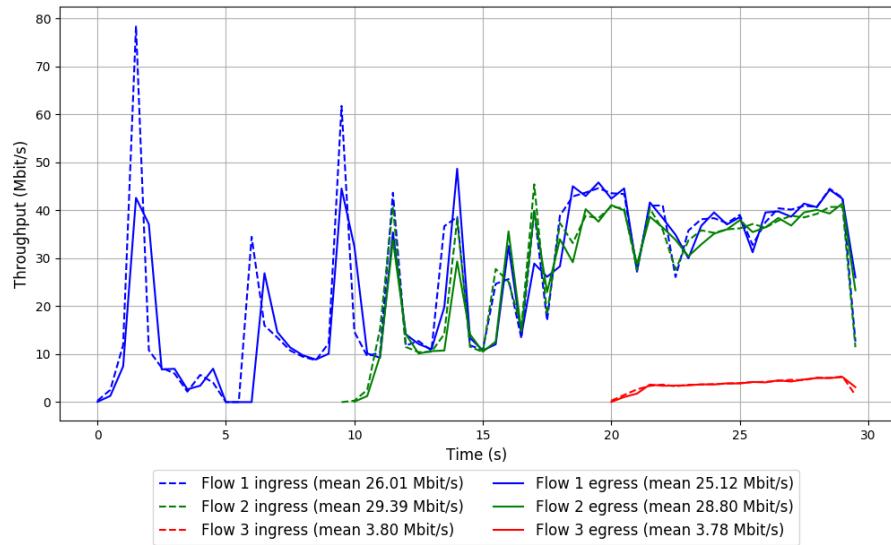


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-17 19:56:21
End at: 2018-04-17 19:56:51
Local clock offset: 3.725 ms
Remote clock offset: -1.606 ms

# Below is generated by plot.py at 2018-04-17 21:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 158.809 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 158.266 ms
Loss rate: 3.39%
-- Flow 2:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 159.862 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 159.252 ms
Loss rate: 0.47%
```

Run 8: Report of QUIC Cubic — Data Link

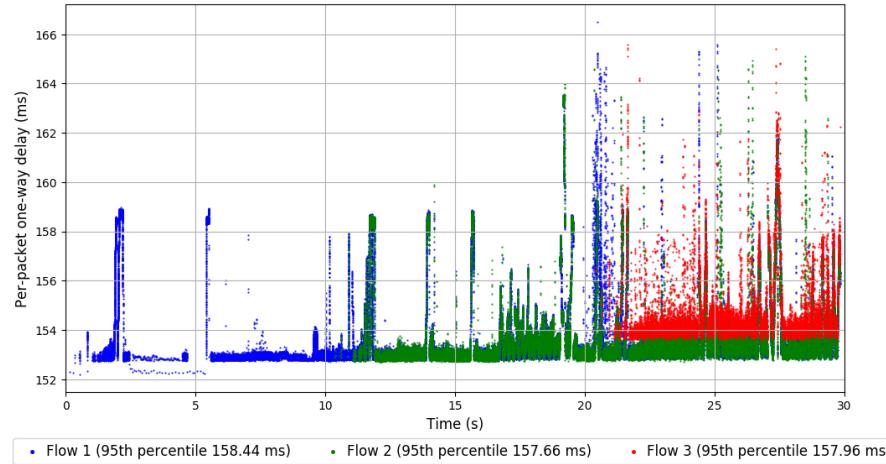
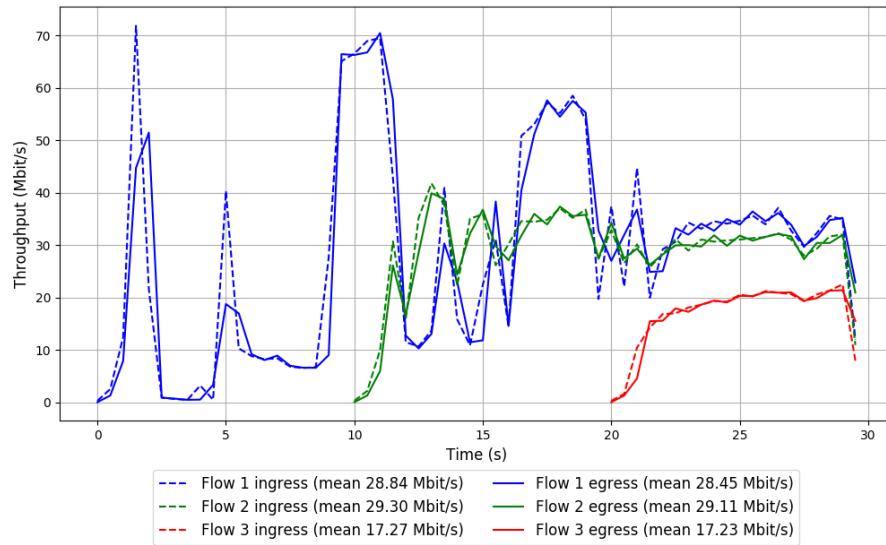


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-17 20:19:11
End at: 2018-04-17 20:19:41
Local clock offset: 3.812 ms
Remote clock offset: -1.242 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.26 Mbit/s
95th percentile per-packet one-way delay: 158.330 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 158.443 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 157.655 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 17.23 Mbit/s
95th percentile per-packet one-way delay: 157.956 ms
Loss rate: 0.16%
```

Run 9: Report of QUIC Cubic — Data Link

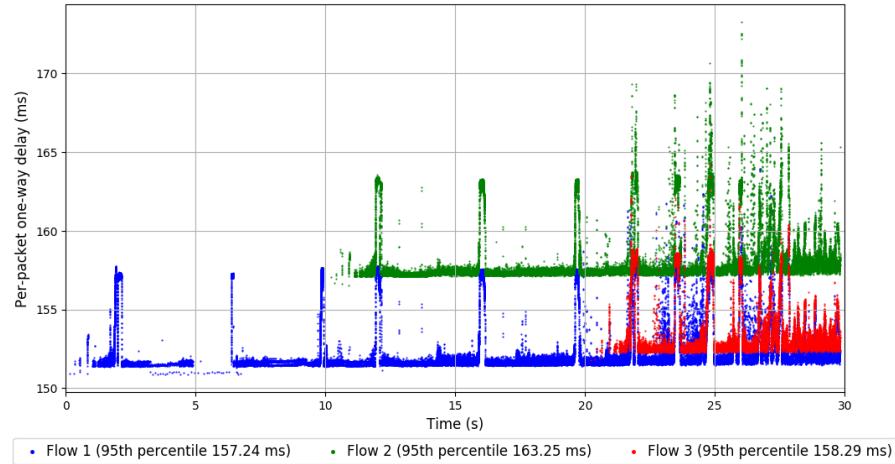
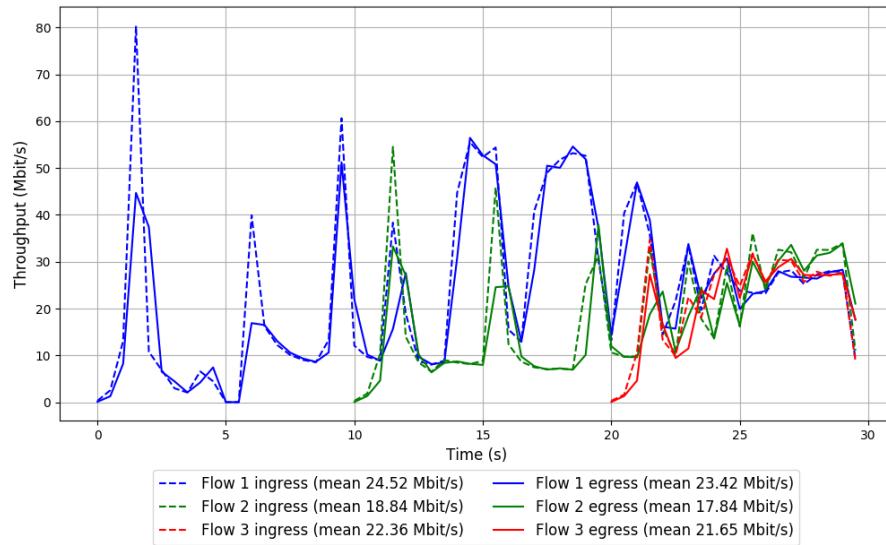


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-17 20:42:24
End at: 2018-04-17 20:42:54
Local clock offset: 5.425 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.19 Mbit/s
95th percentile per-packet one-way delay: 161.772 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 157.241 ms
Loss rate: 4.50%
-- Flow 2:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 163.251 ms
Loss rate: 5.33%
-- Flow 3:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 158.287 ms
Loss rate: 3.15%
```

Run 10: Report of QUIC Cubic — Data Link

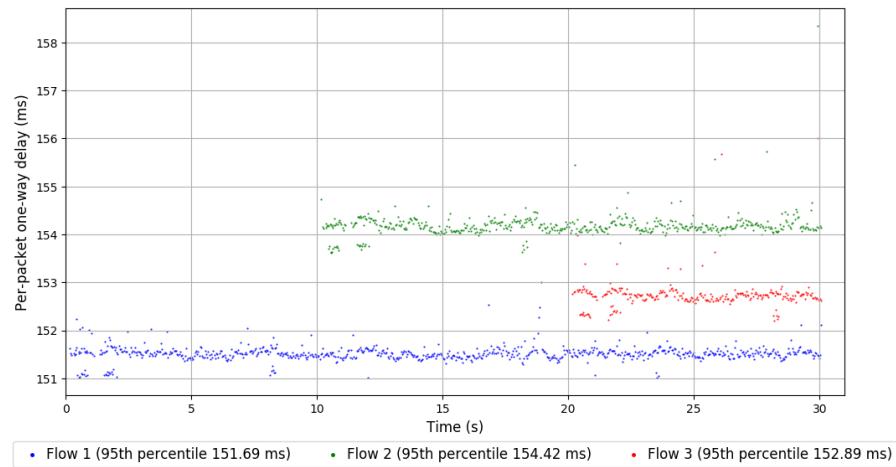
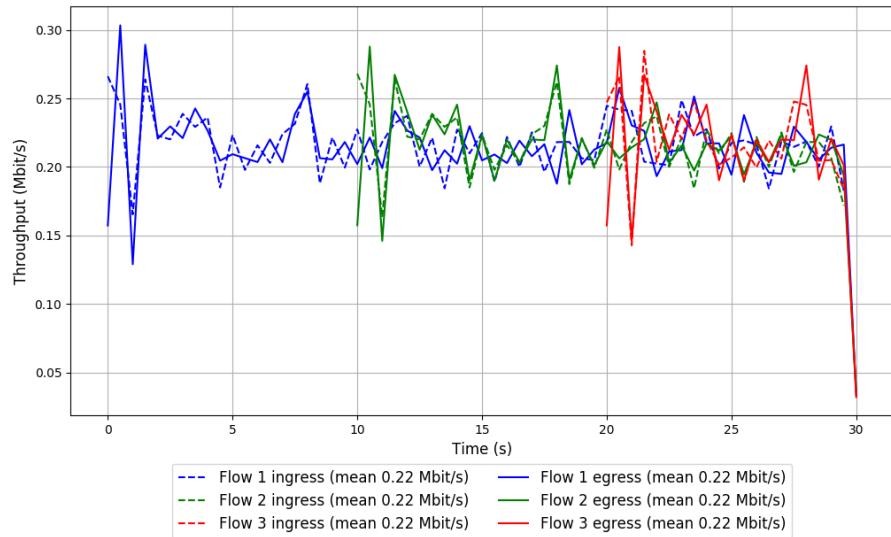


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 16:59:32
End at: 2018-04-17 17:00:02
Local clock offset: 6.003 ms
Remote clock offset: -2.43 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.420 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.894 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

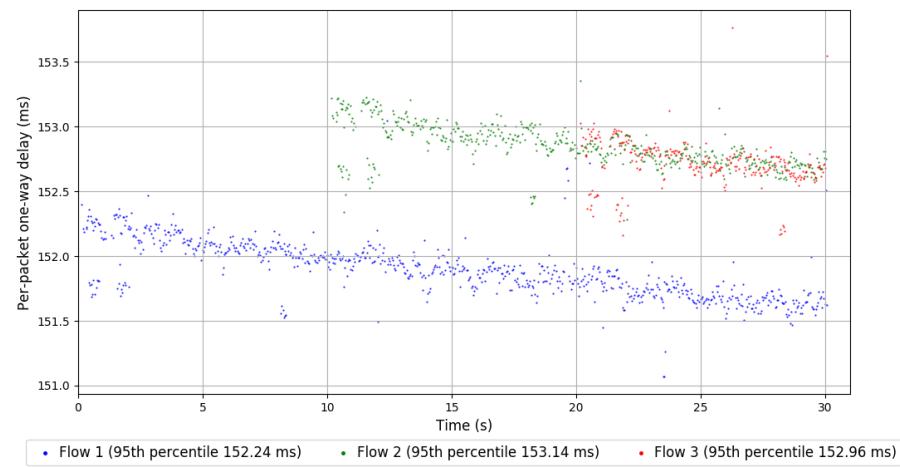
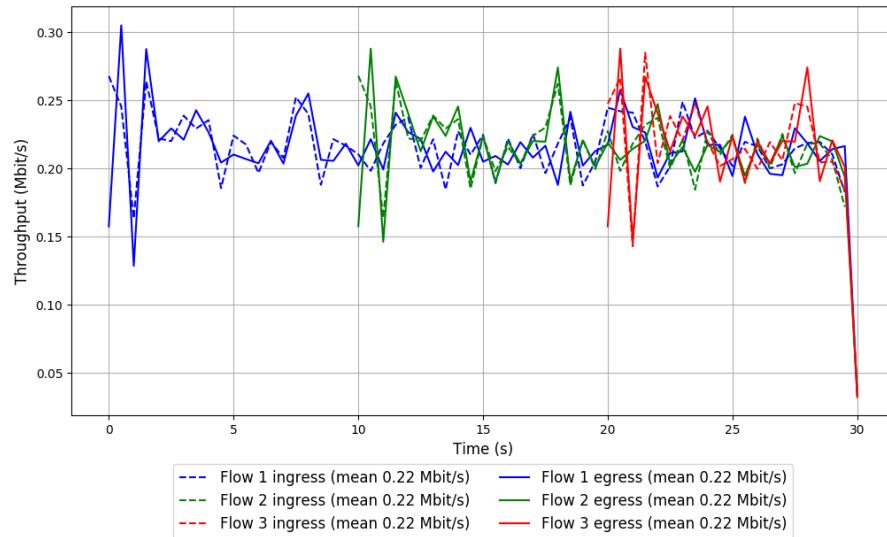


Run 2: Statistics of SCReAM

```
Start at: 2018-04-17 17:22:27
End at: 2018-04-17 17:22:57
Local clock offset: 5.842 ms
Remote clock offset: 11.21 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.138 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.960 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

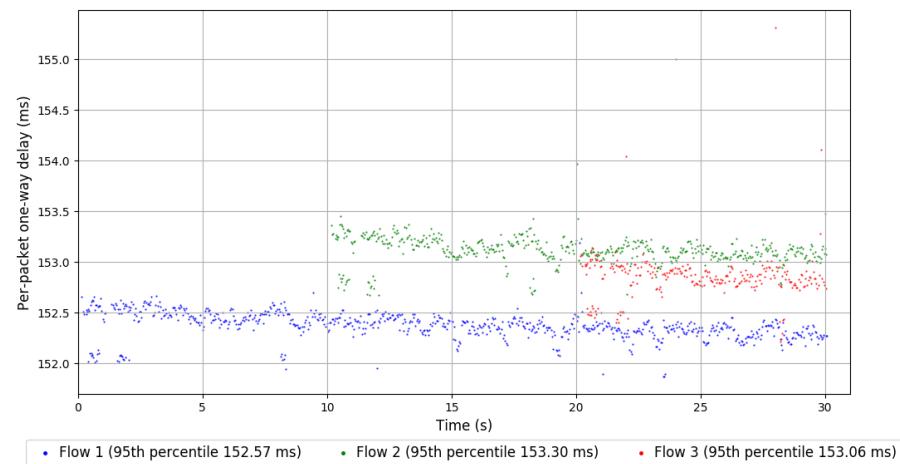
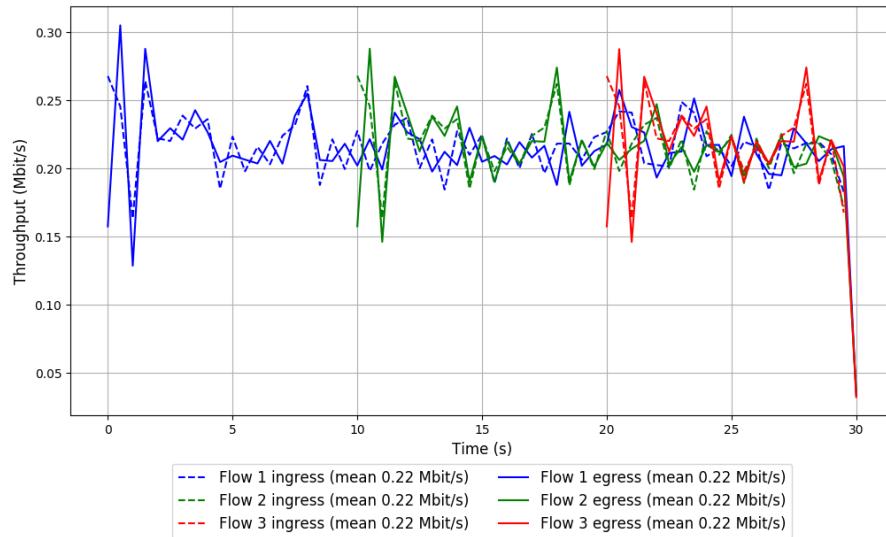


Run 3: Statistics of SCReAM

```
Start at: 2018-04-17 17:45:26
End at: 2018-04-17 17:45:56
Local clock offset: 7.714 ms
Remote clock offset: 9.8 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.060 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

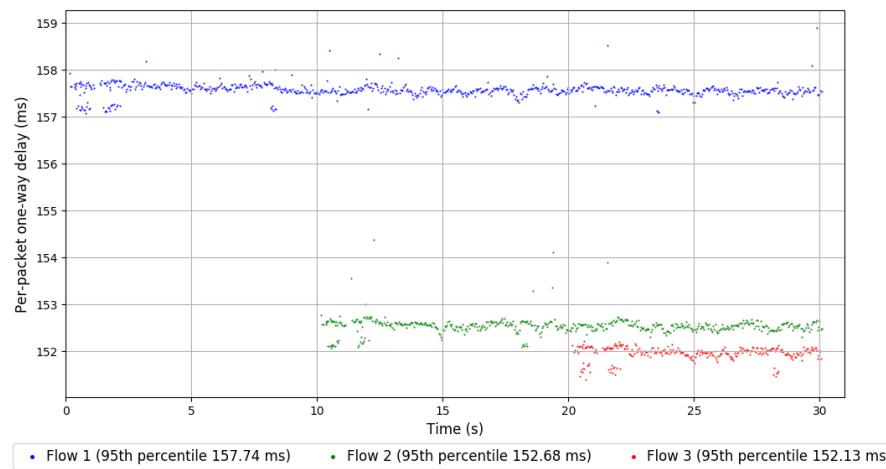
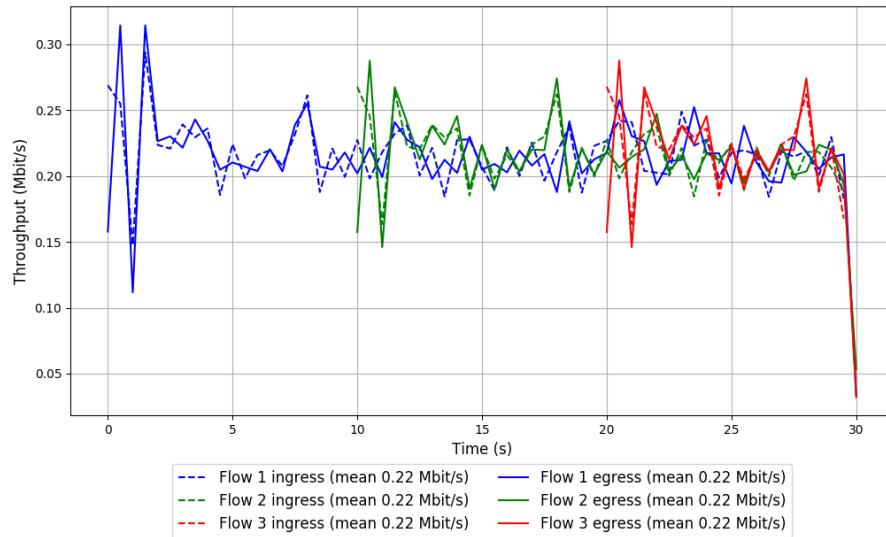


Run 4: Statistics of SCReAM

```
Start at: 2018-04-17 18:08:21
End at: 2018-04-17 18:08:51
Local clock offset: 5.074 ms
Remote clock offset: -6.858 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 157.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 157.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.683 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.126 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

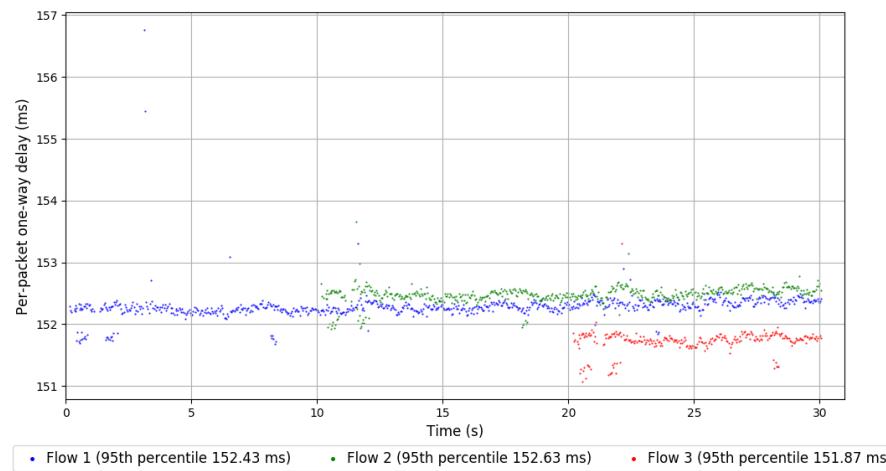
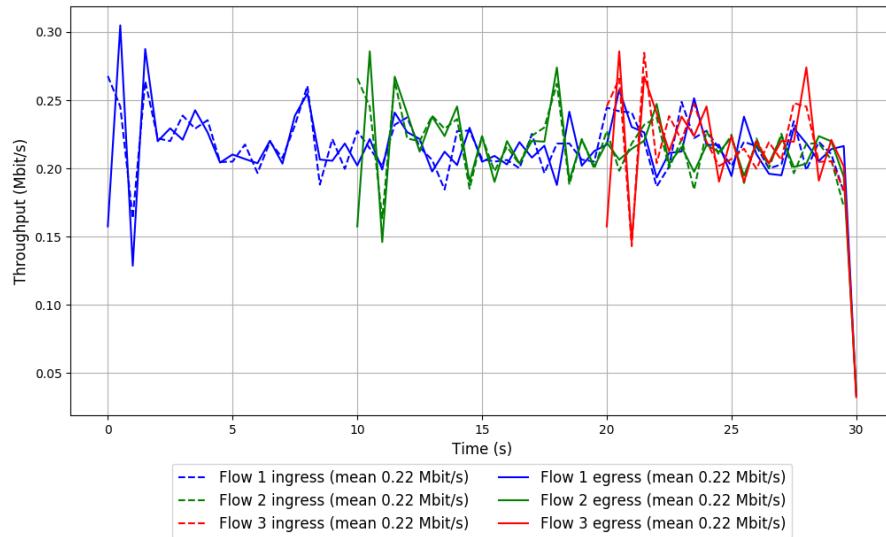


```
Run 5: Statistics of SCReAM

Start at: 2018-04-17 18:31:01
End at: 2018-04-17 18:31:31
Local clock offset: 4.369 ms
Remote clock offset: 1.938 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 152.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.630 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.867 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

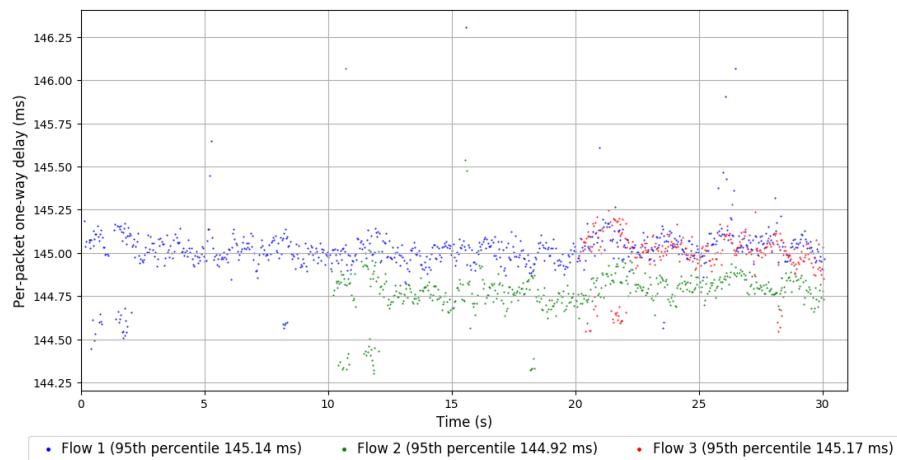
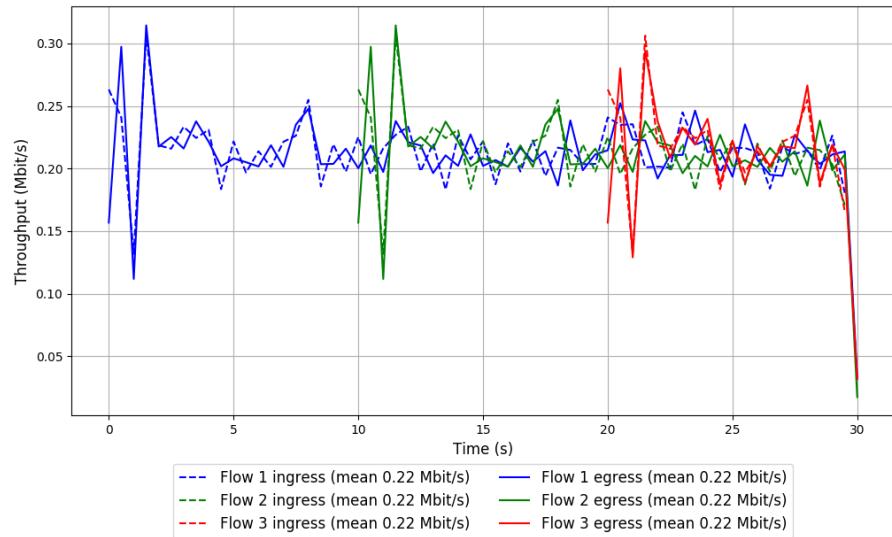


Run 6: Statistics of SCReAM

```
Start at: 2018-04-17 18:54:07
End at: 2018-04-17 18:54:37
Local clock offset: 5.958 ms
Remote clock offset: 1.912 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 145.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 145.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 144.924 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 145.171 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

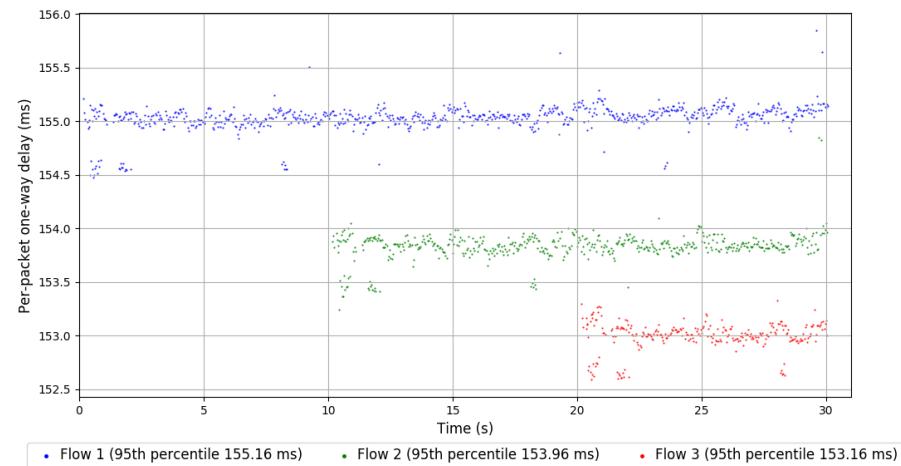
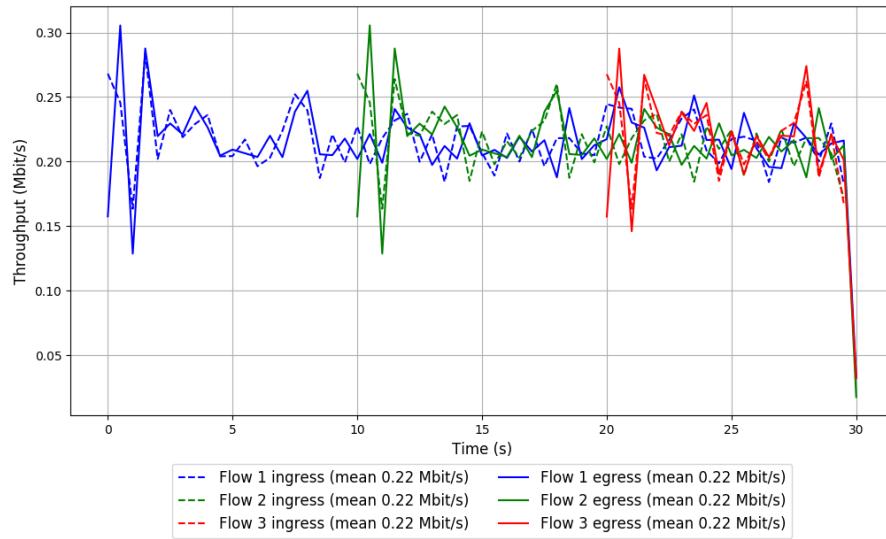


Run 7: Statistics of SCReAM

```
Start at: 2018-04-17 19:17:08
End at: 2018-04-17 19:17:38
Local clock offset: 9.888 ms
Remote clock offset: -0.73 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 155.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.156 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.962 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.165 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

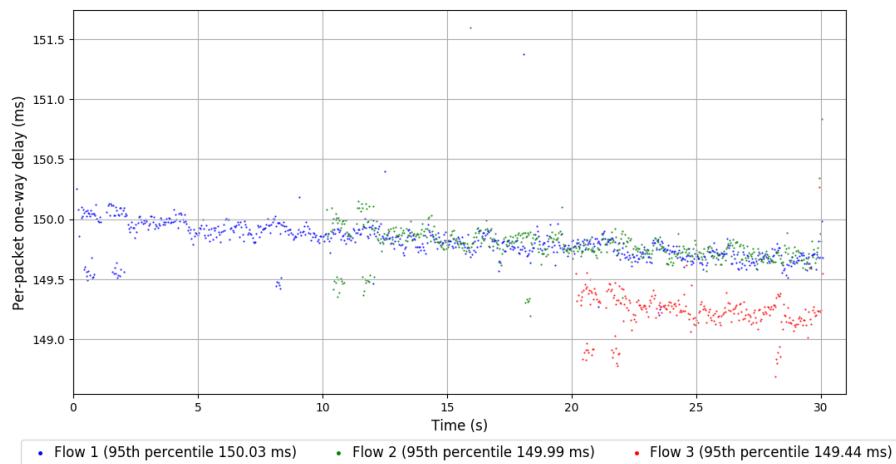
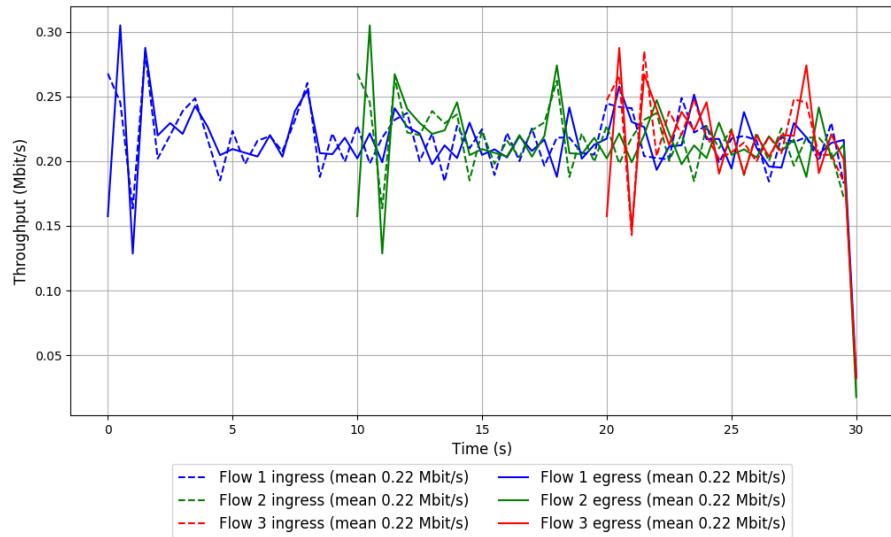


Run 8: Statistics of SCReAM

```
Start at: 2018-04-17 19:40:02
End at: 2018-04-17 19:40:32
Local clock offset: 10.263 ms
Remote clock offset: -2.197 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 150.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 150.033 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.993 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.438 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

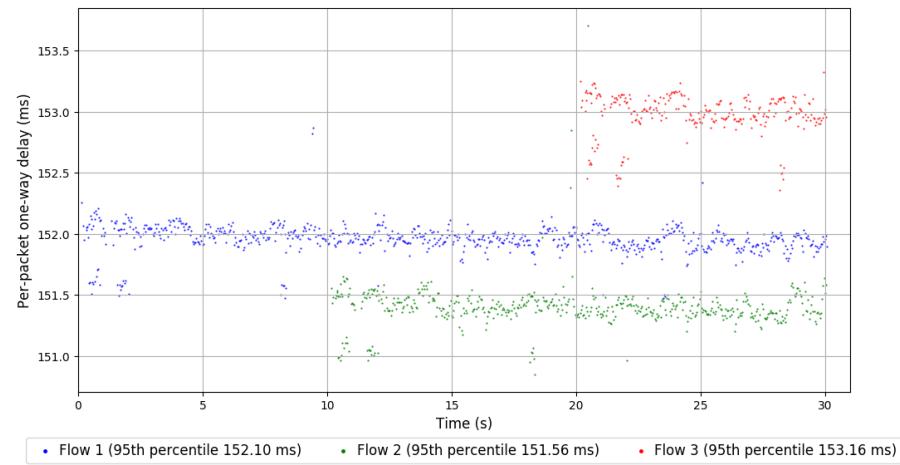
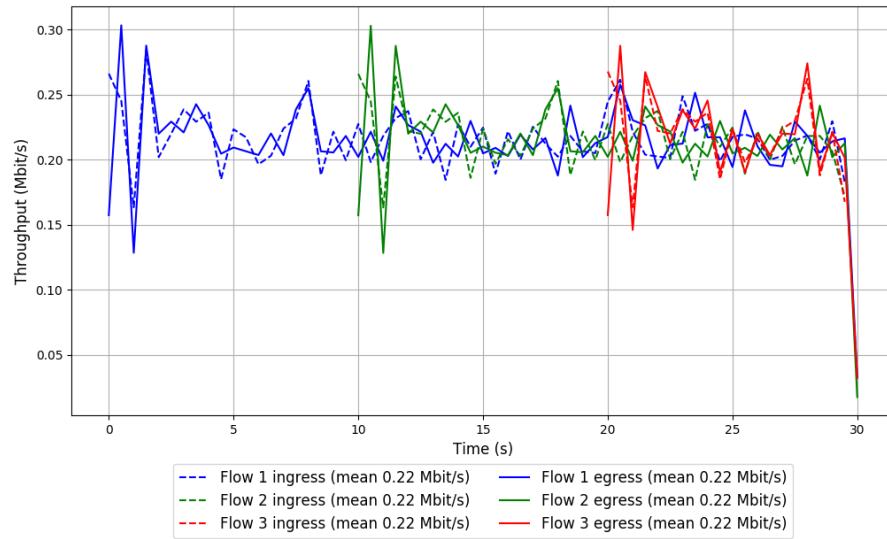


Run 9: Statistics of SCReAM

```
Start at: 2018-04-17 20:03:00
End at: 2018-04-17 20:03:30
Local clock offset: 2.772 ms
Remote clock offset: -1.982 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.558 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.158 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

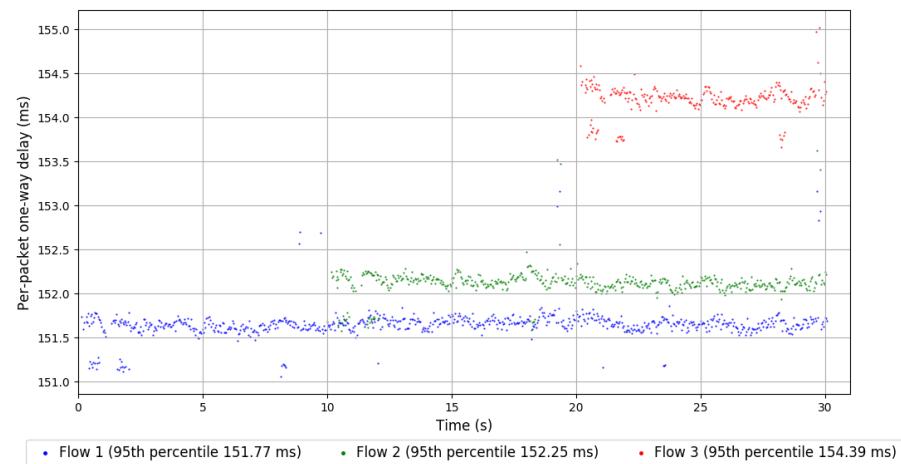
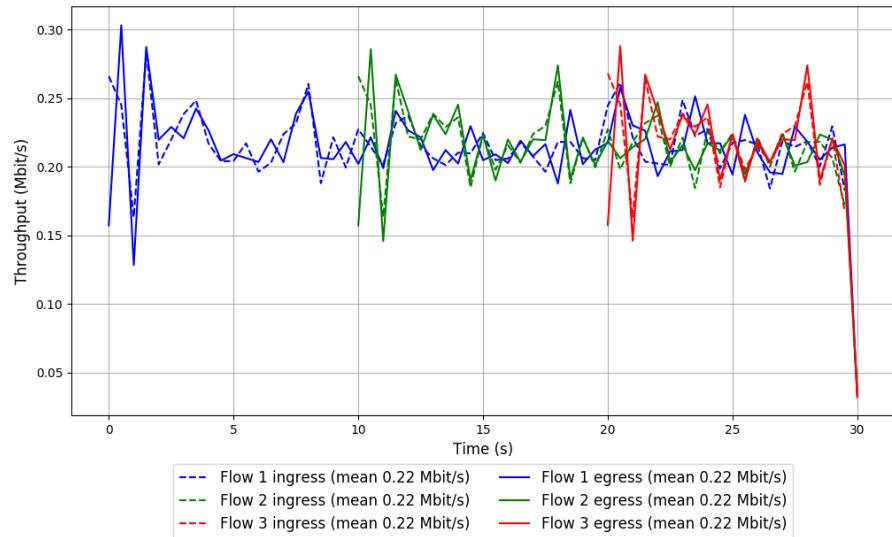


Run 10: Statistics of SCReAM

```
Start at: 2018-04-17 20:25:48
End at: 2018-04-17 20:26:18
Local clock offset: 4.822 ms
Remote clock offset: -1.207 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.768 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.390 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

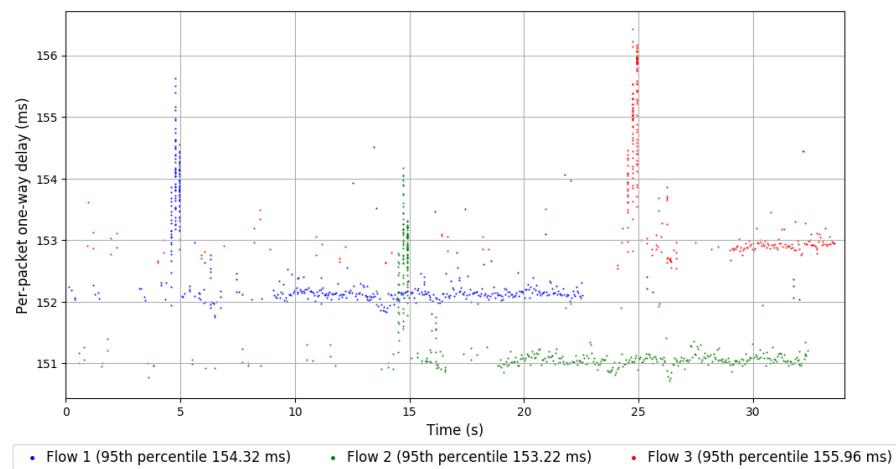
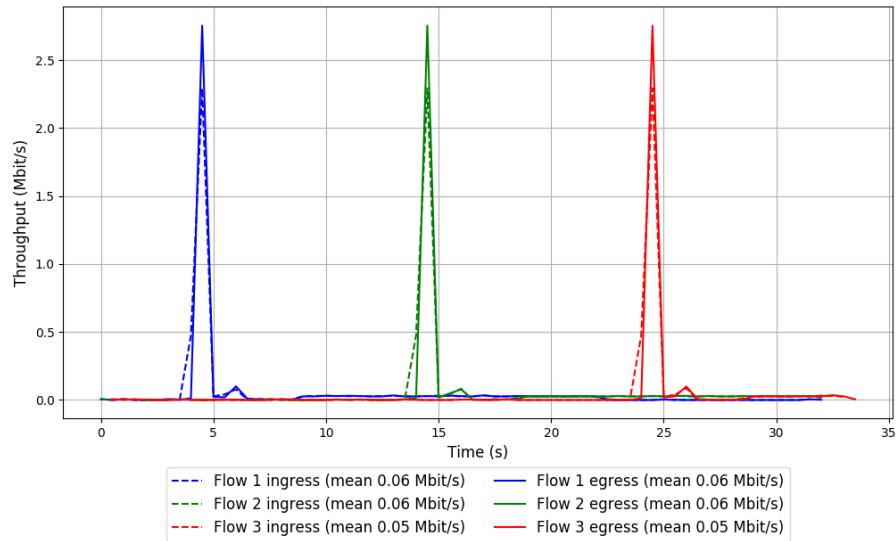


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 16:55:37
End at: 2018-04-17 16:56:07
Local clock offset: 6.517 ms
Remote clock offset: -1.844 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.317 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.957 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

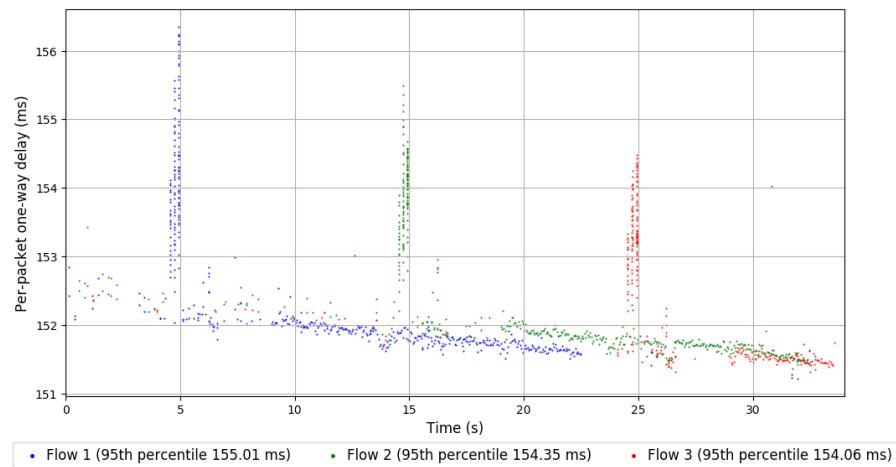
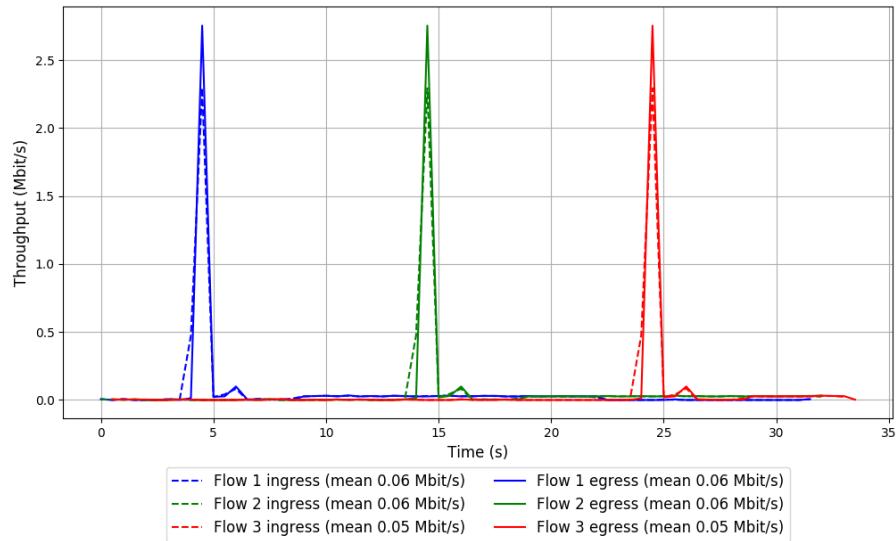


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-17 17:18:33
End at: 2018-04-17 17:19:03
Local clock offset: 5.632 ms
Remote clock offset: 4.706 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.014 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.353 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.055 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

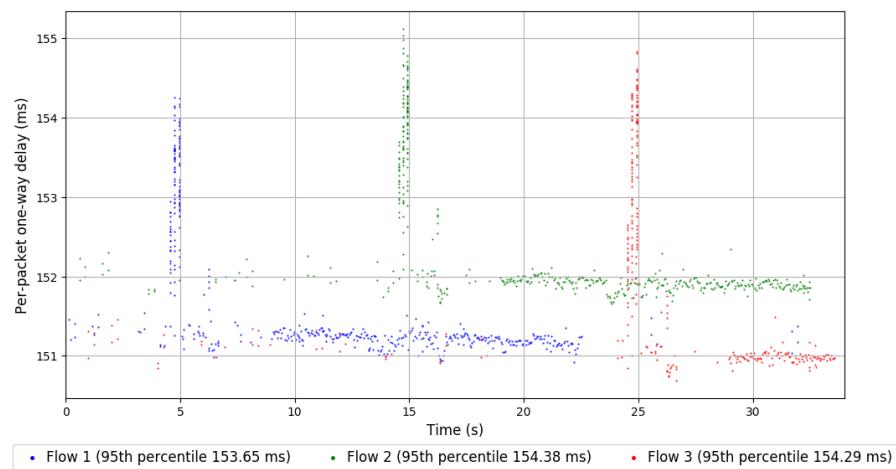
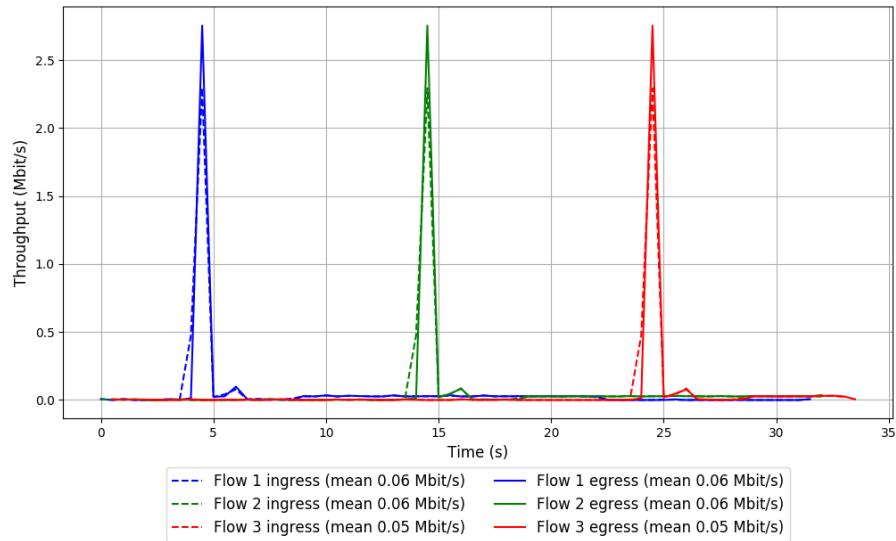


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-17 17:41:31
End at: 2018-04-17 17:42:01
Local clock offset: 7.594 ms
Remote clock offset: 8.093 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.288 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

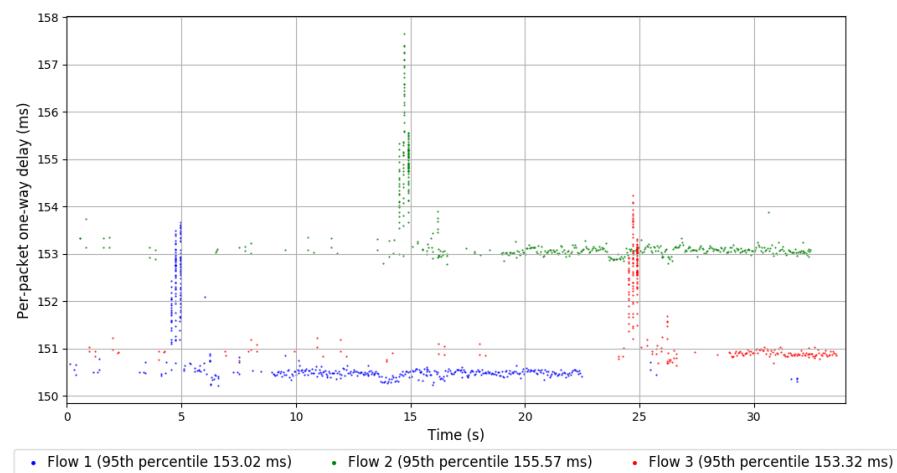
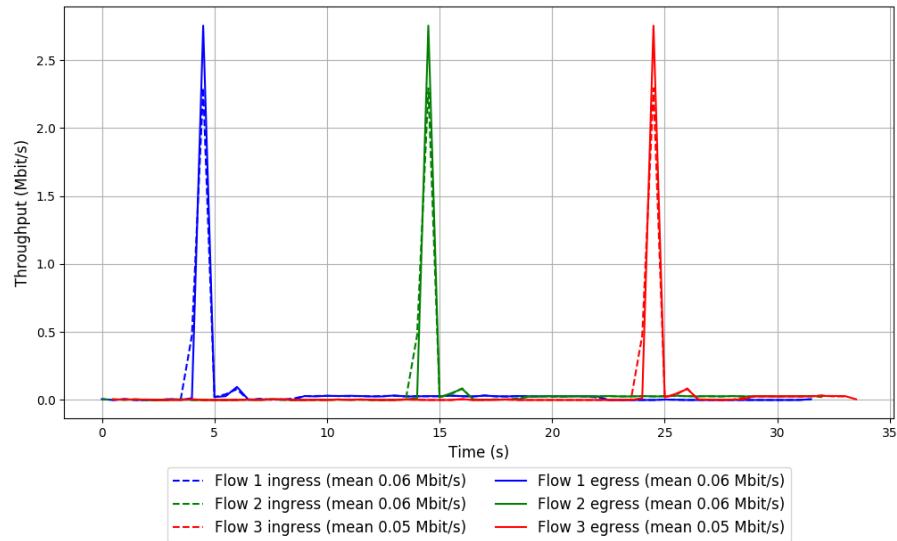


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-17 18:04:27
End at: 2018-04-17 18:04:57
Local clock offset: 5.954 ms
Remote clock offset: -6.708 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.979 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.017 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.318 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

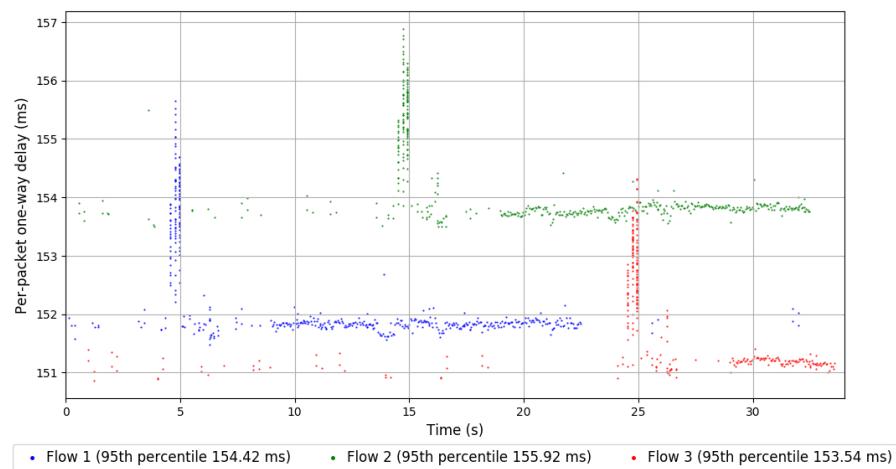
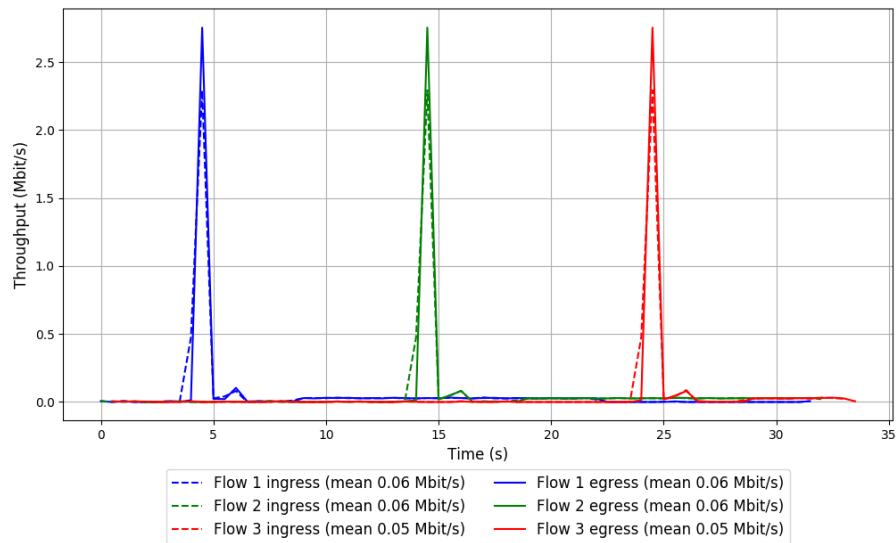


```
Run 5: Statistics of WebRTC media

Start at: 2018-04-17 18:27:07
End at: 2018-04-17 18:27:37
Local clock offset: 4.014 ms
Remote clock offset: 2.448 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.419 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.924 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.542 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

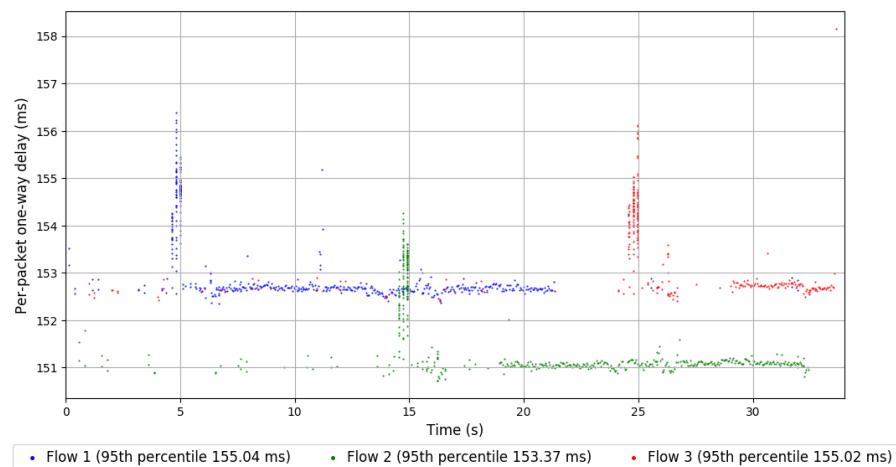
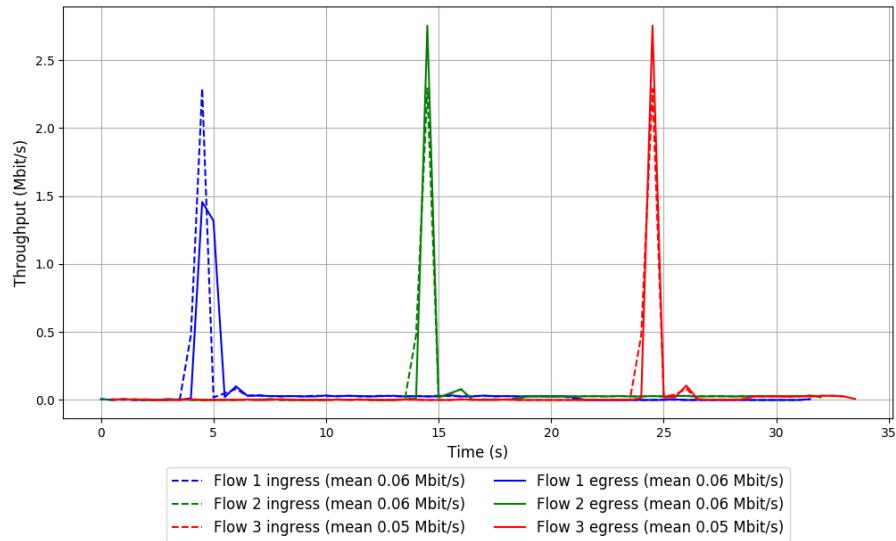


Run 6: Statistics of WebRTC media

```
Start at: 2018-04-17 18:50:08
End at: 2018-04-17 18:50:38
Local clock offset: 5.983 ms
Remote clock offset: 1.794 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.036 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.366 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.018 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

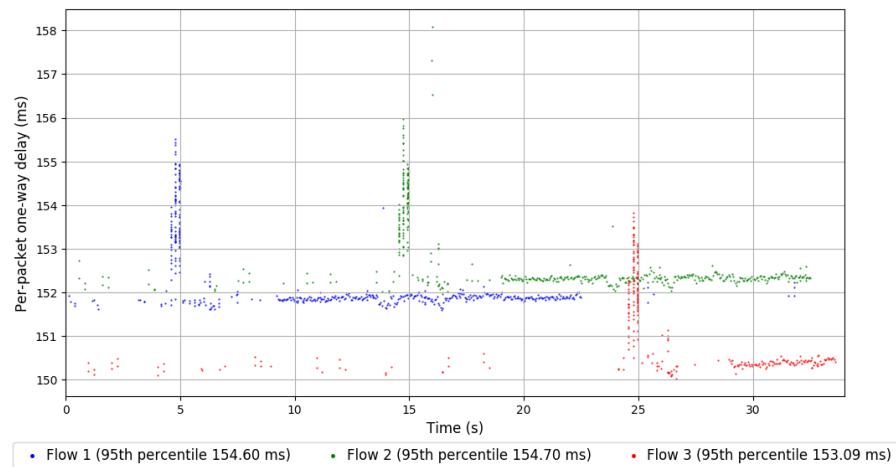
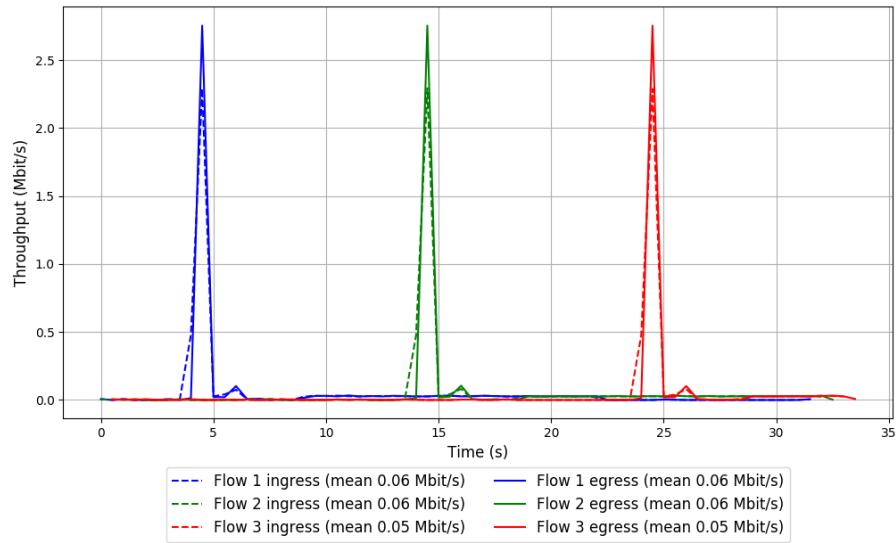


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-17 19:13:13
End at: 2018-04-17 19:13:43
Local clock offset: 9.402 ms
Remote clock offset: -0.697 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.597 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.087 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

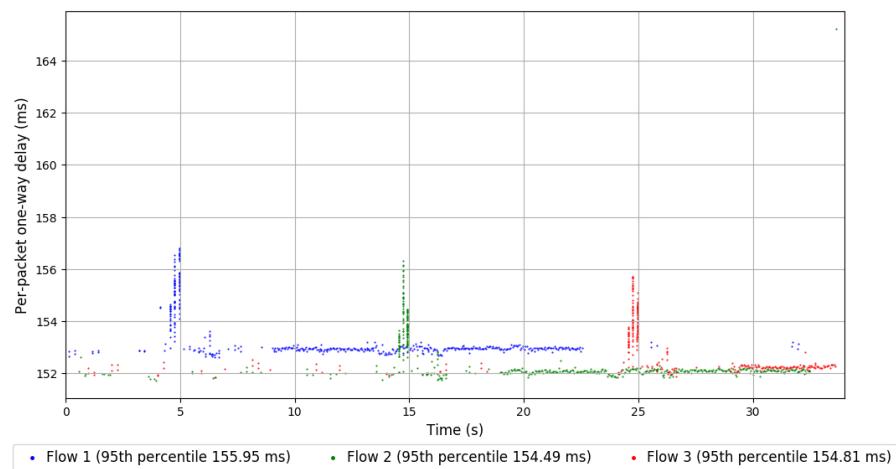
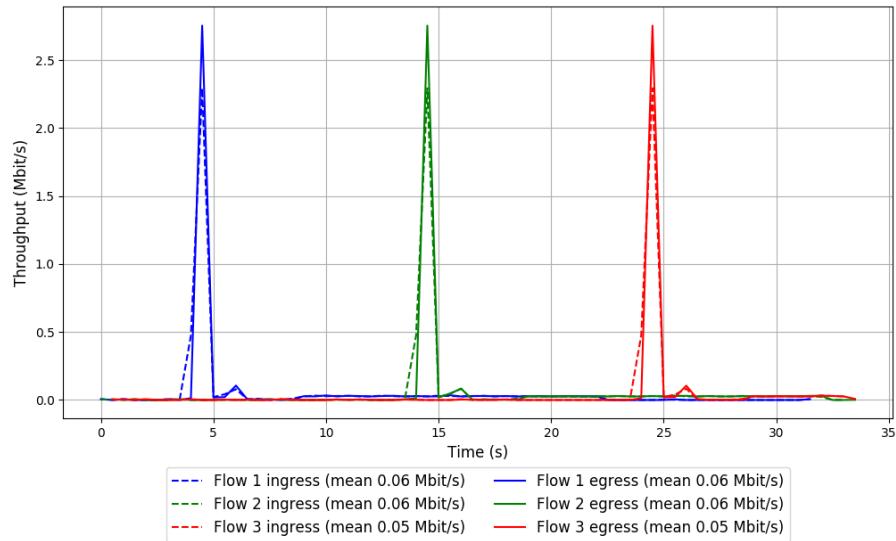


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-17 19:36:07
End at: 2018-04-17 19:36:37
Local clock offset: 12.047 ms
Remote clock offset: -1.894 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.950 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.494 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.807 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

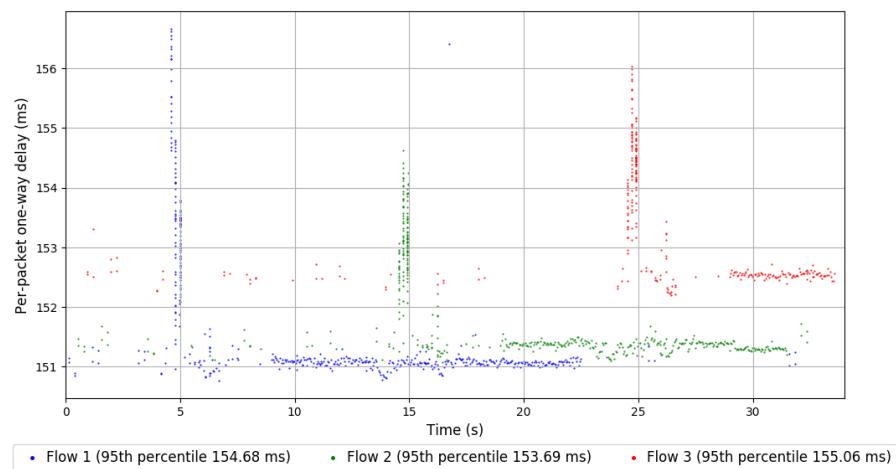
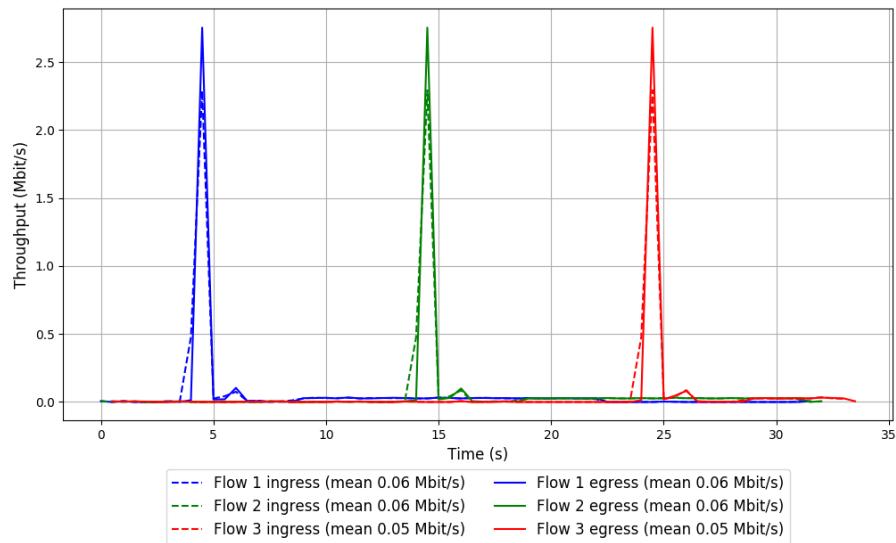


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-17 19:59:05
End at: 2018-04-17 19:59:35
Local clock offset: 3.377 ms
Remote clock offset: -1.705 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.687 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.059 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

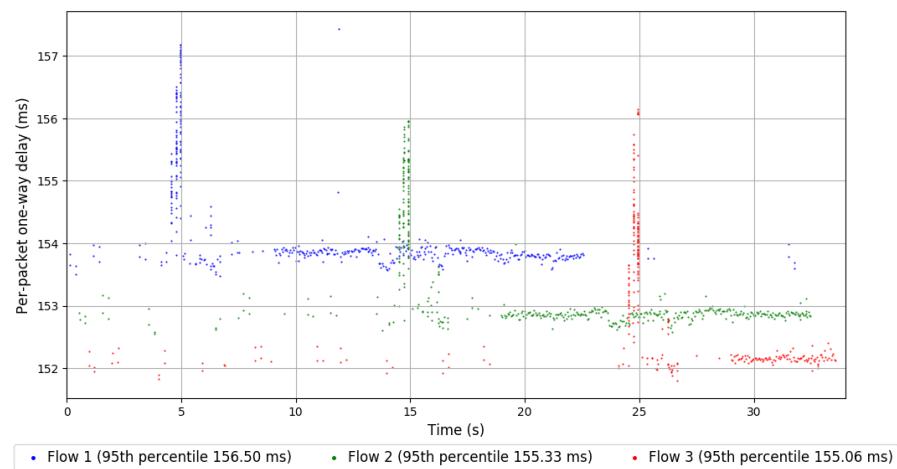
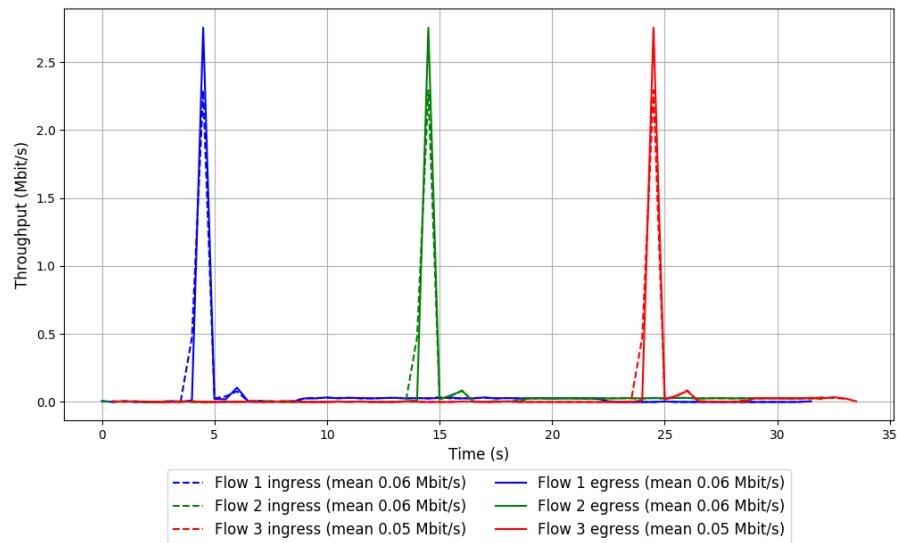


Run 10: Statistics of WebRTC media

```
Start at: 2018-04-17 20:21:54
End at: 2018-04-17 20:22:24
Local clock offset: 4.422 ms
Remote clock offset: -1.166 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 156.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.326 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.059 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

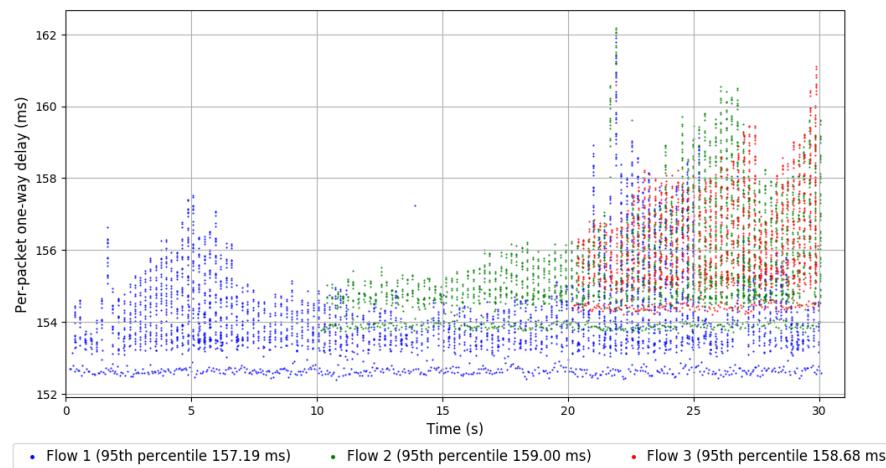
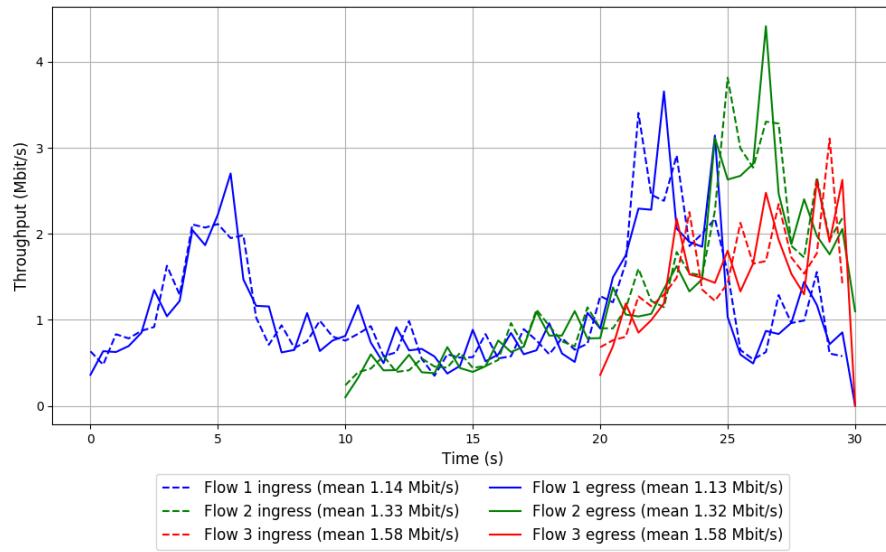


Run 1: Statistics of Sprout

```
Start at: 2018-04-17 17:06:24
End at: 2018-04-17 17:06:54
Local clock offset: 5.576 ms
Remote clock offset: -3.186 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 158.444 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 157.185 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 159.000 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 158.676 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

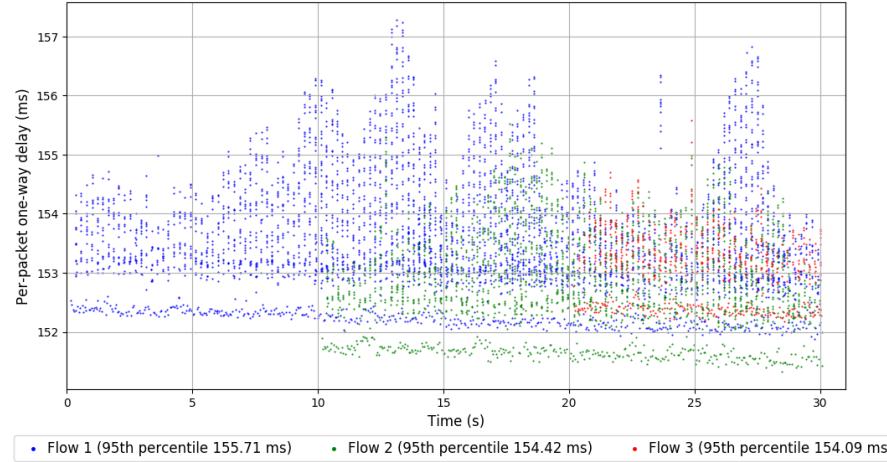
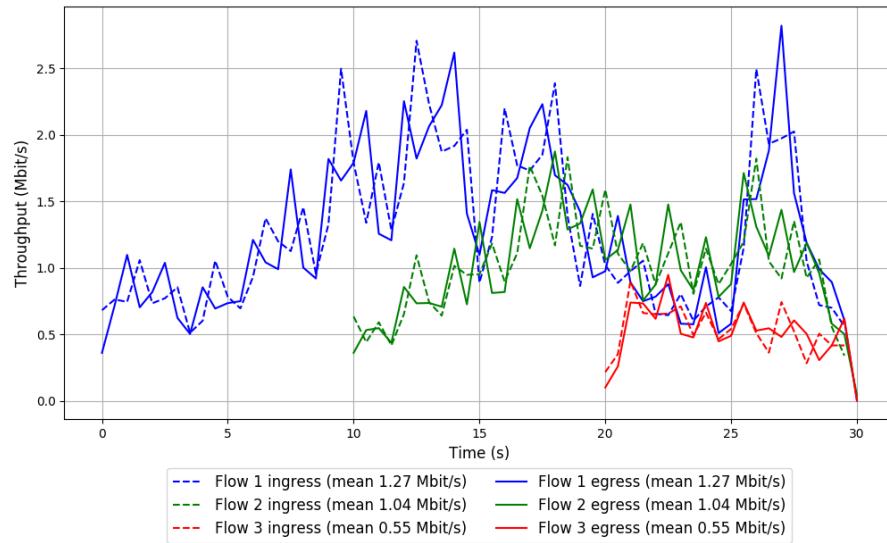


Run 2: Statistics of Sprout

```
Start at: 2018-04-17 17:29:24
End at: 2018-04-17 17:29:54
Local clock offset: 6.794 ms
Remote clock offset: 0.758 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 155.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 155.710 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 154.418 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 154.086 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

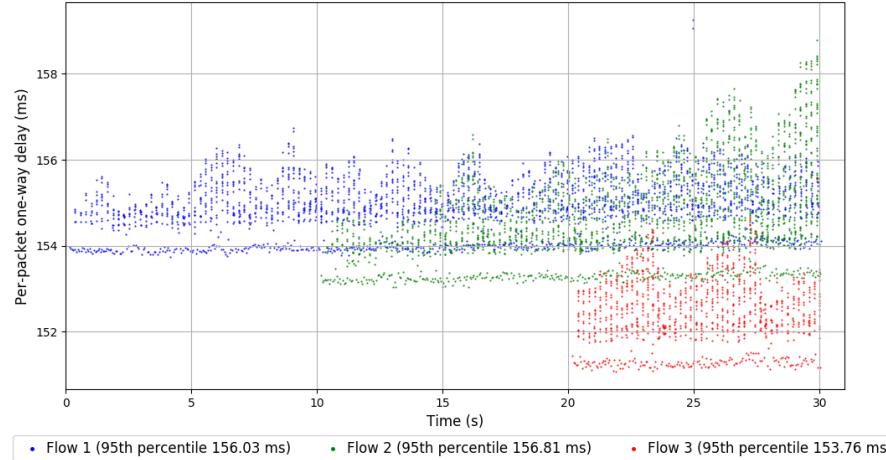
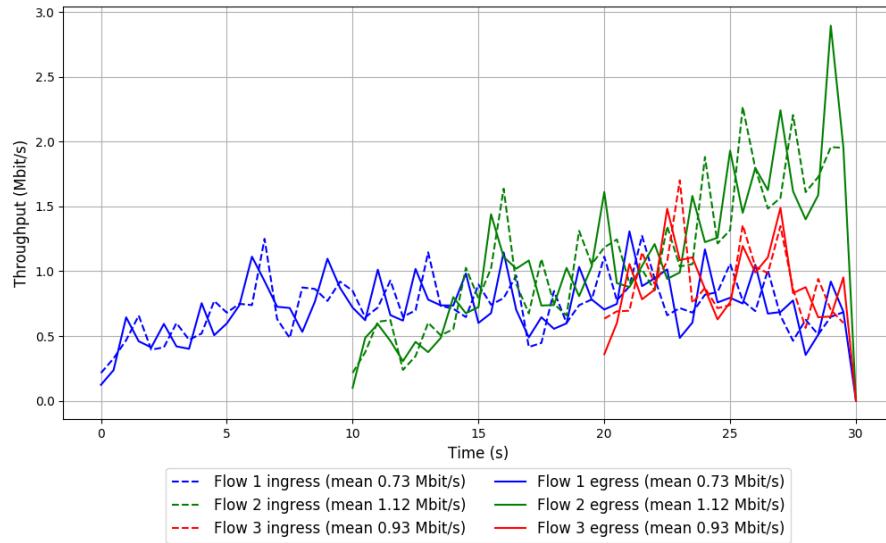


Run 3: Statistics of Sprout

```
Start at: 2018-04-17 17:52:21
End at: 2018-04-17 17:52:51
Local clock offset: 8.069 ms
Remote clock offset: 4.995 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 156.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 156.026 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 156.815 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 153.761 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

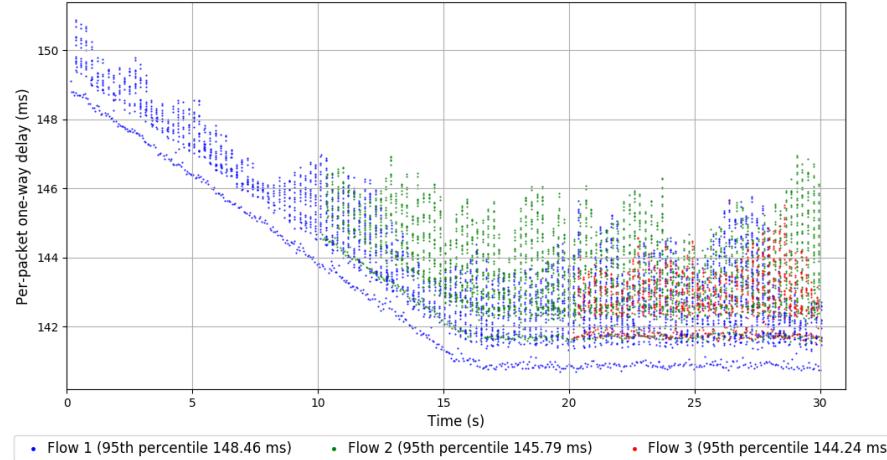
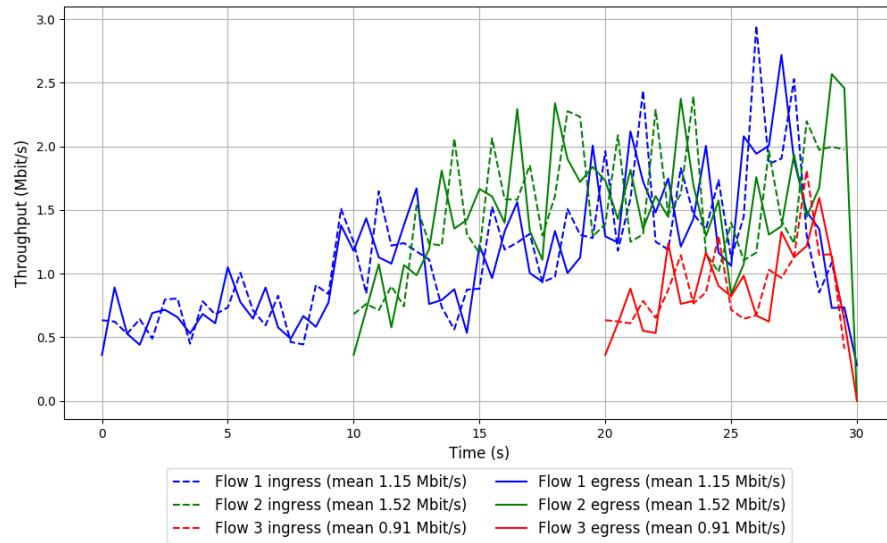


Run 4: Statistics of Sprout

```
Start at: 2018-04-17 18:15:01
End at: 2018-04-17 18:15:31
Local clock offset: 4.741 ms
Remote clock offset: -6.777 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 147.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 148.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 145.790 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 144.237 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

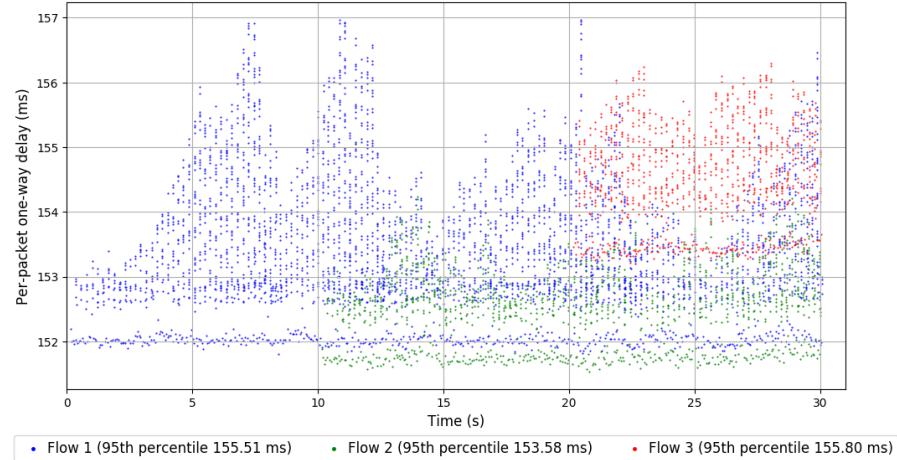
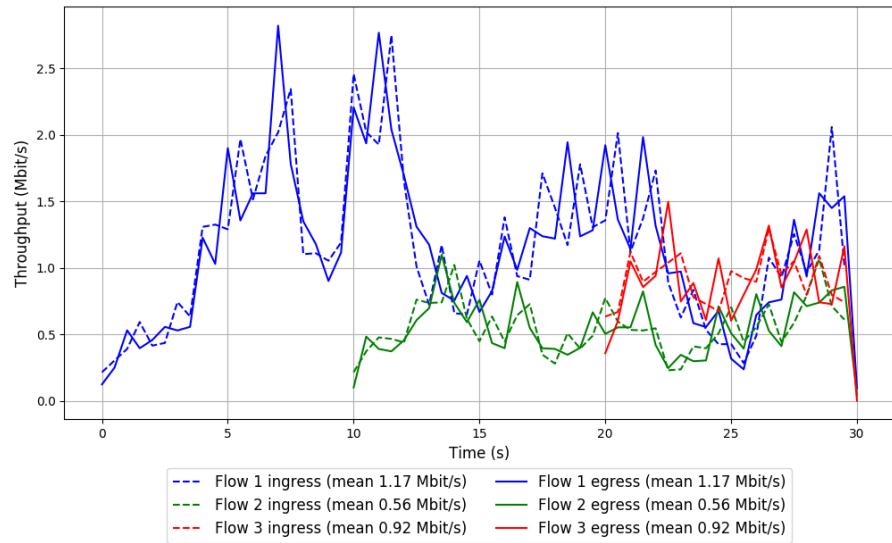


Run 5: Statistics of Sprout

```
Start at: 2018-04-17 18:37:59
End at: 2018-04-17 18:38:29
Local clock offset: 5.338 ms
Remote clock offset: 1.627 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 155.521 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 155.507 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 153.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 155.804 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

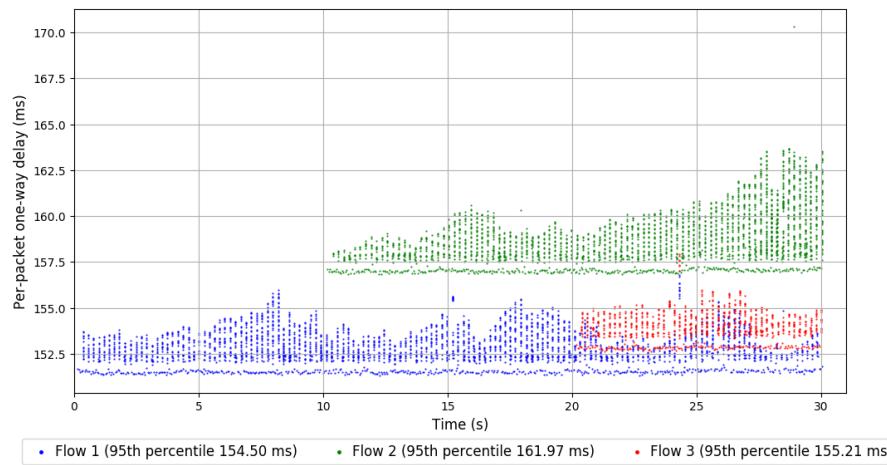
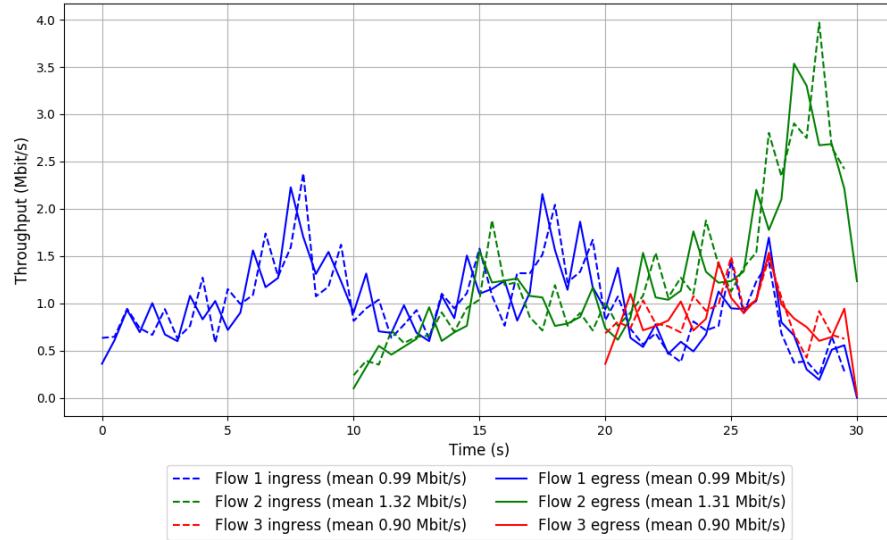


Run 6: Statistics of Sprout

```
Start at: 2018-04-17 19:01:03
End at: 2018-04-17 19:01:33
Local clock offset: 6.101 ms
Remote clock offset: 0.503 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 160.643 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 154.497 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 161.974 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 155.212 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

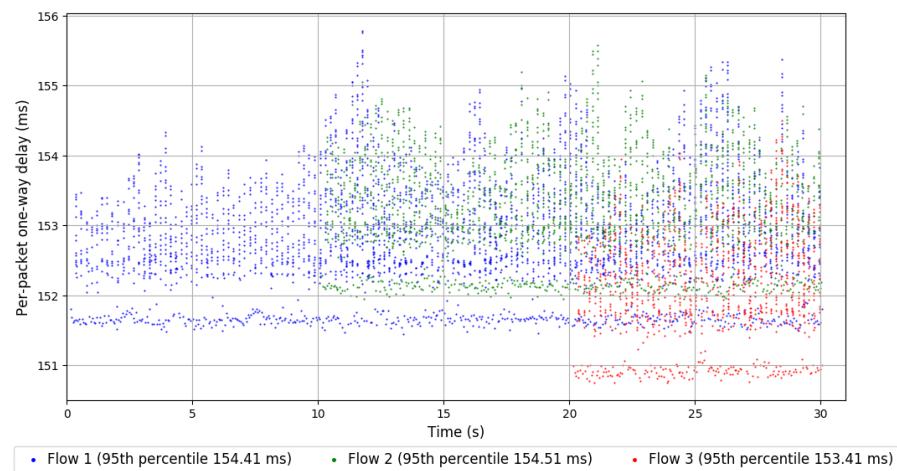
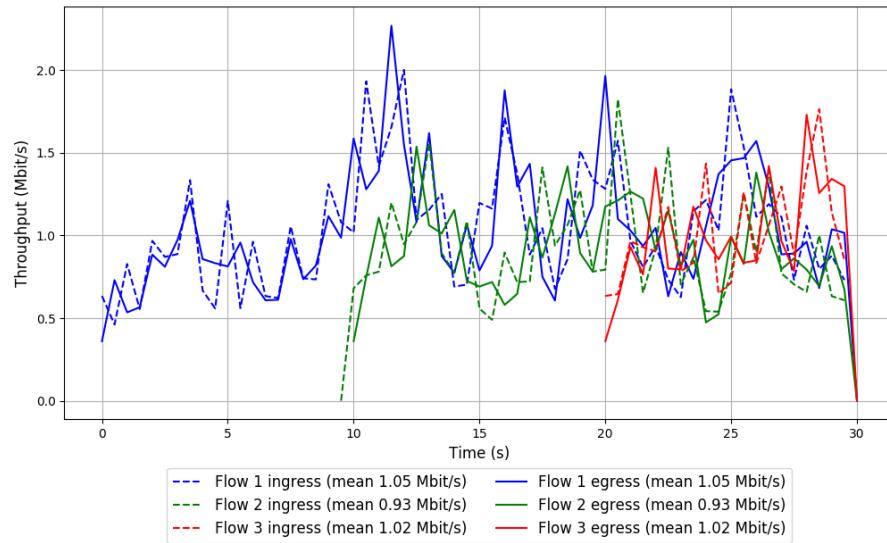


Run 7: Statistics of Sprout

```
Start at: 2018-04-17 19:24:01
End at: 2018-04-17 19:24:31
Local clock offset: 11.045 ms
Remote clock offset: -1.028 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 154.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 154.410 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 154.514 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 153.408 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

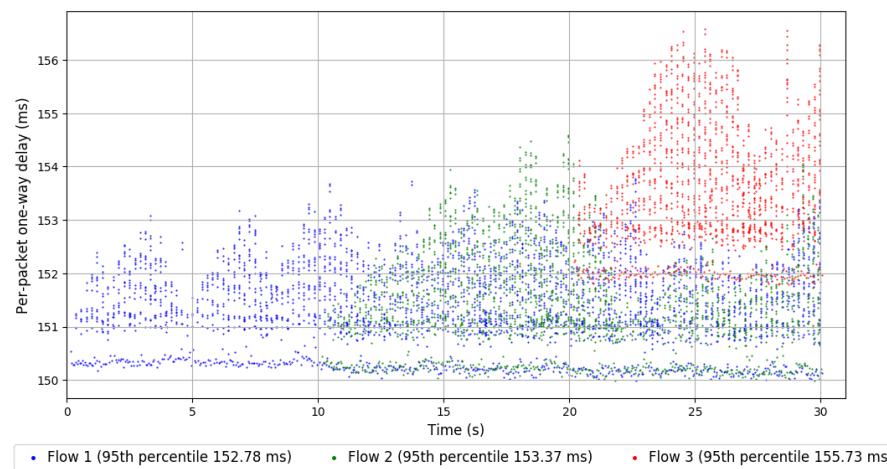
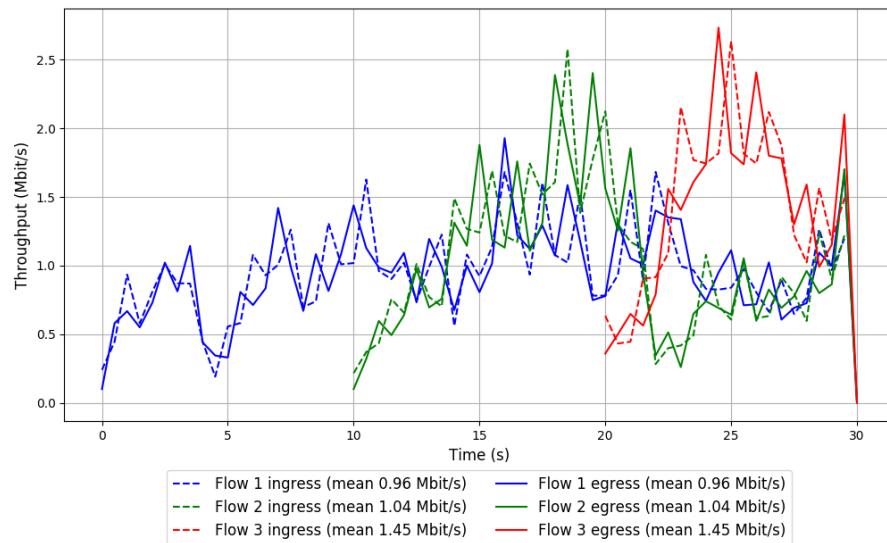


Run 8: Statistics of Sprout

```
Start at: 2018-04-17 19:46:49
End at: 2018-04-17 19:47:19
Local clock offset: 6.487 ms
Remote clock offset: -0.91 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 154.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 152.784 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 153.370 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 155.726 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

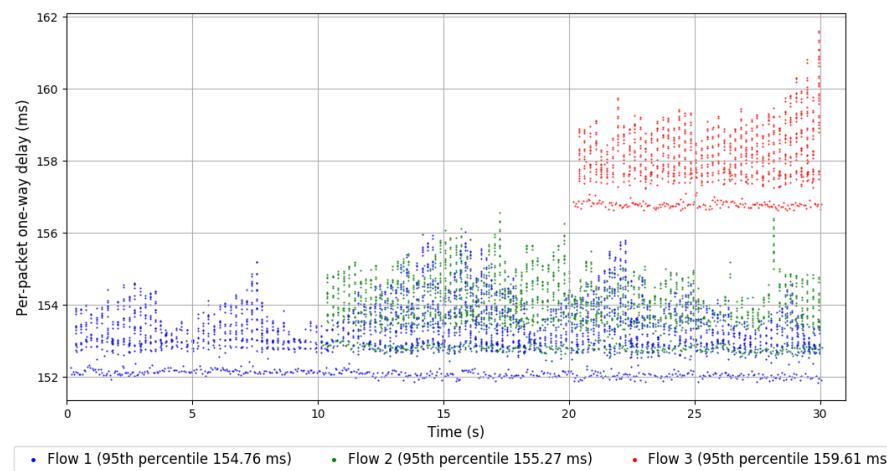
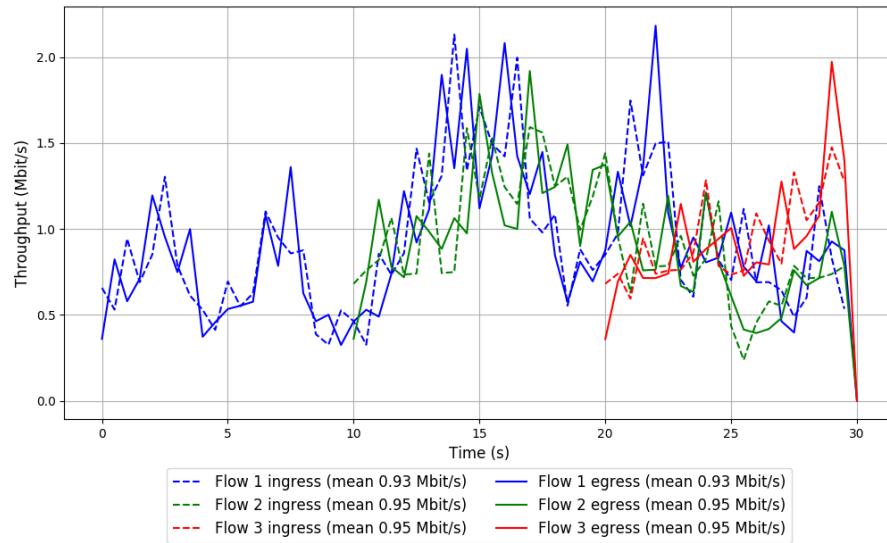


Run 9: Statistics of Sprout

```
Start at: 2018-04-17 20:09:47
End at: 2018-04-17 20:10:17
Local clock offset: 2.389 ms
Remote clock offset: -1.402 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 158.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 154.761 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 155.272 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 159.613 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

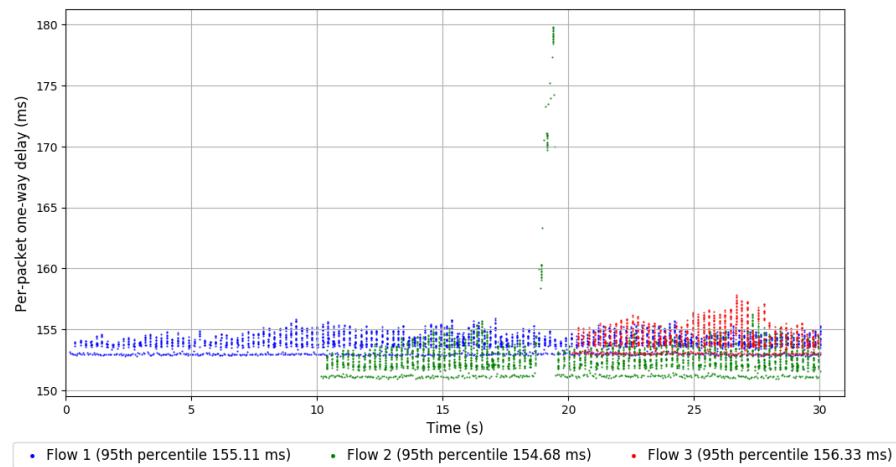
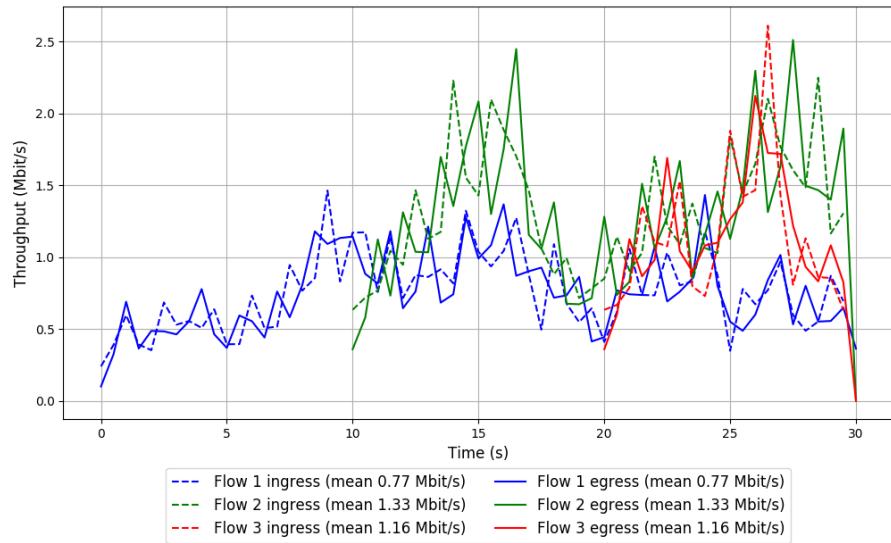


Run 10: Statistics of Sprout

```
Start at: 2018-04-17 20:32:43
End at: 2018-04-17 20:33:13
Local clock offset: 5.046 ms
Remote clock offset: -1.297 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 155.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 155.106 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 156.334 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

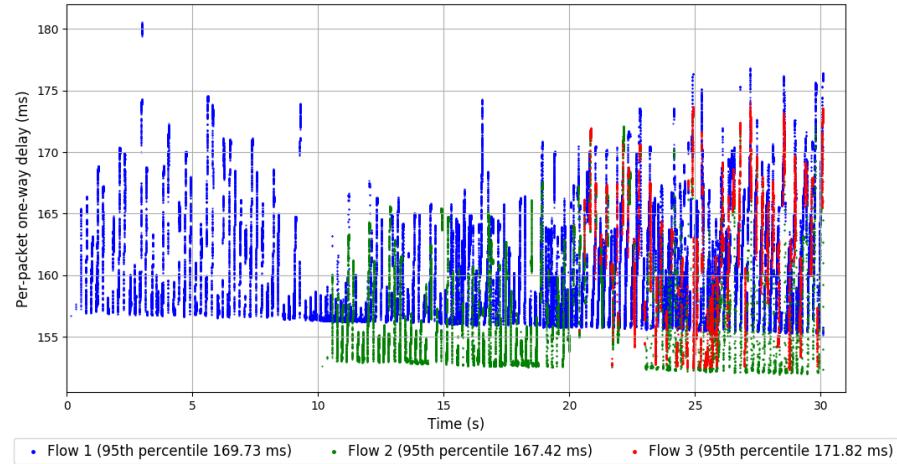
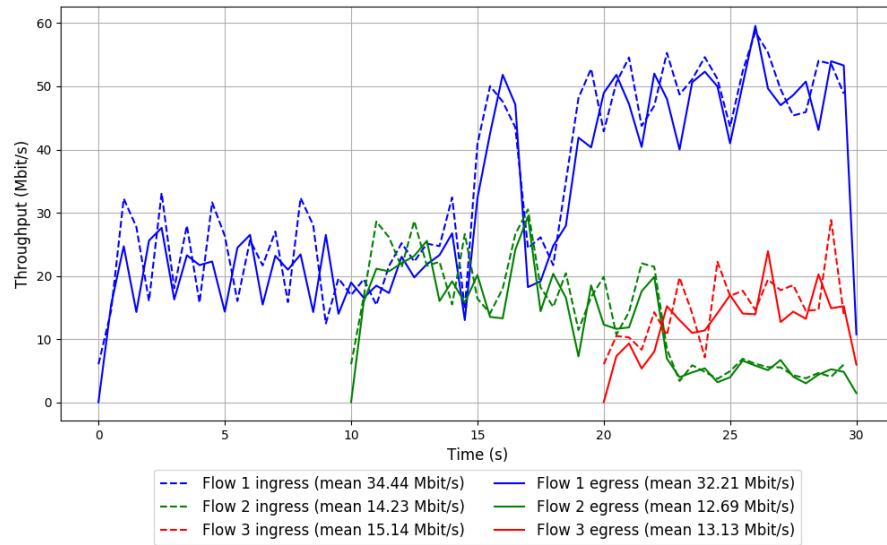


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-17 17:13:11
End at: 2018-04-17 17:13:41
Local clock offset: 5.659 ms
Remote clock offset: -9.309 ms

# Below is generated by plot.py at 2018-04-17 21:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.01 Mbit/s
95th percentile per-packet one-way delay: 169.697 ms
Loss rate: 8.02%
-- Flow 1:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 169.727 ms
Loss rate: 6.49%
-- Flow 2:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 167.419 ms
Loss rate: 10.84%
-- Flow 3:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 171.821 ms
Loss rate: 13.23%
```

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

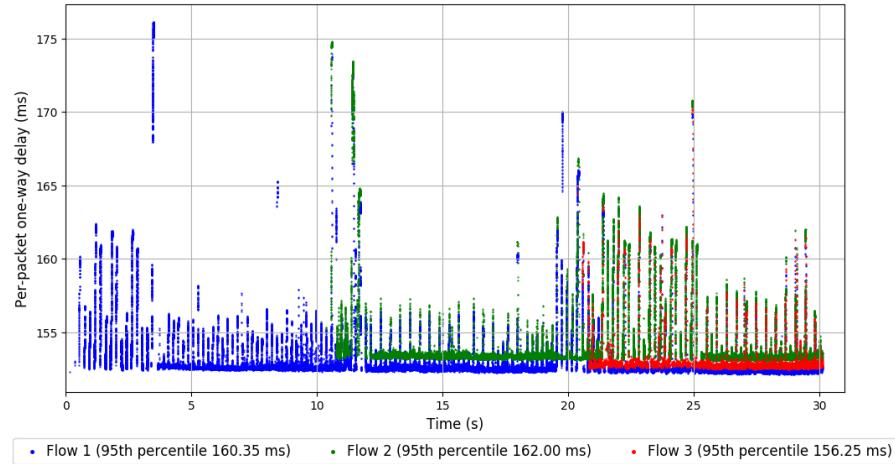
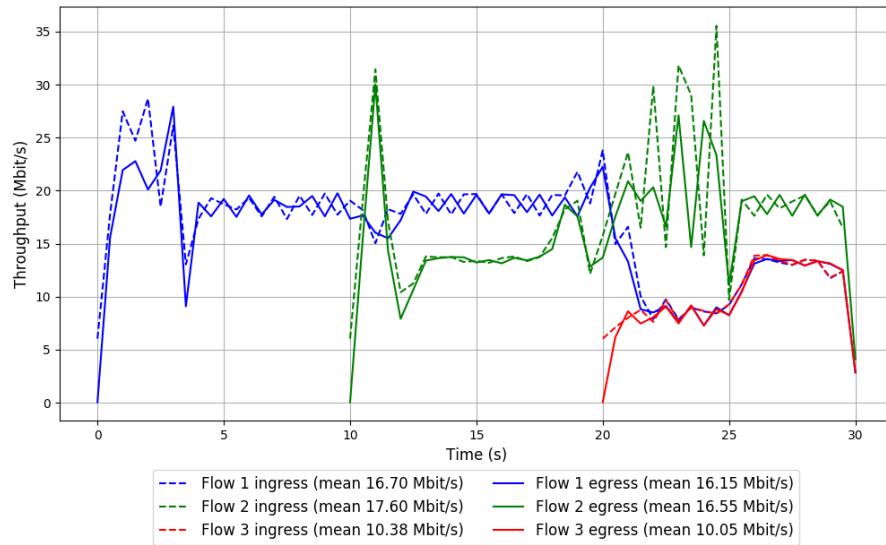


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-17 17:36:11
End at: 2018-04-17 17:36:41
Local clock offset: 7.353 ms
Remote clock offset: 5.327 ms

# Below is generated by plot.py at 2018-04-17 21:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 161.042 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 160.353 ms
Loss rate: 3.28%
-- Flow 2:
Average throughput: 16.55 Mbit/s
95th percentile per-packet one-way delay: 161.998 ms
Loss rate: 5.96%
-- Flow 3:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 156.246 ms
Loss rate: 3.19%
```

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

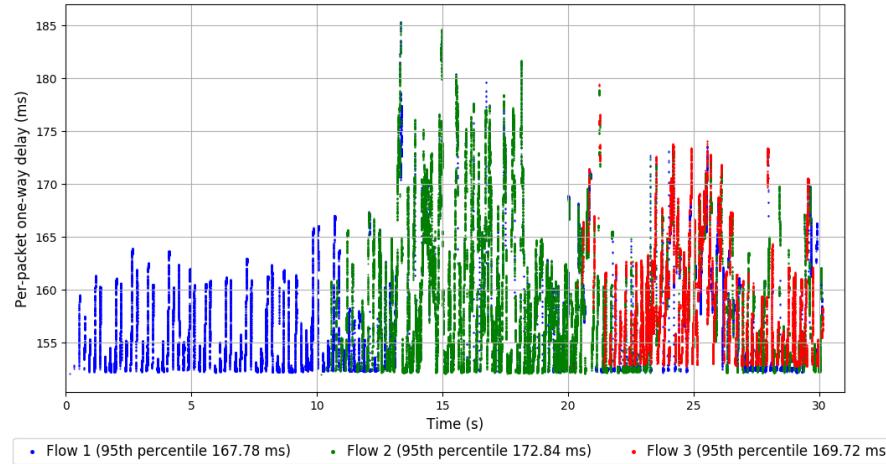
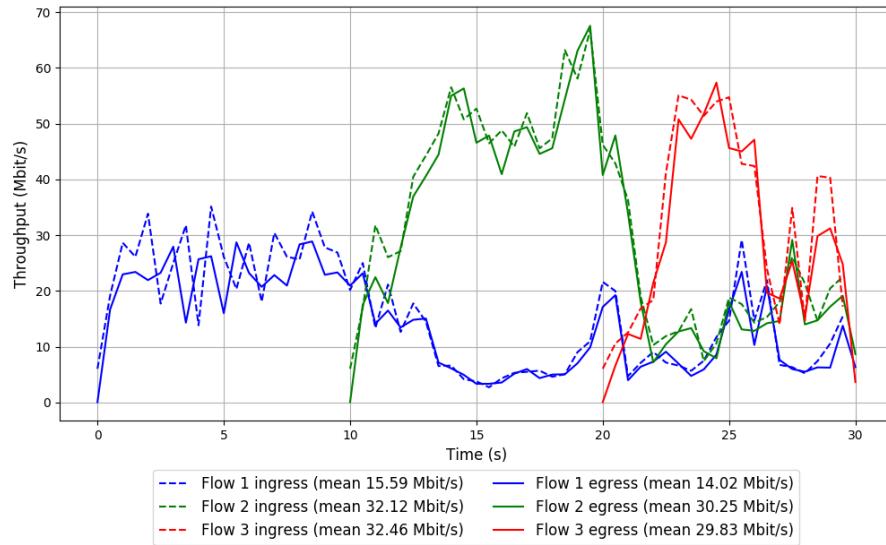


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-17 17:59:05
End at: 2018-04-17 17:59:35
Local clock offset: 6.808 ms
Remote clock offset: 2.419 ms

# Below is generated by plot.py at 2018-04-17 21:11:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.01 Mbit/s
95th percentile per-packet one-way delay: 170.903 ms
Loss rate: 7.69%
-- Flow 1:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 167.782 ms
Loss rate: 10.06%
-- Flow 2:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 172.837 ms
Loss rate: 5.78%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 169.722 ms
Loss rate: 8.04%
```

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

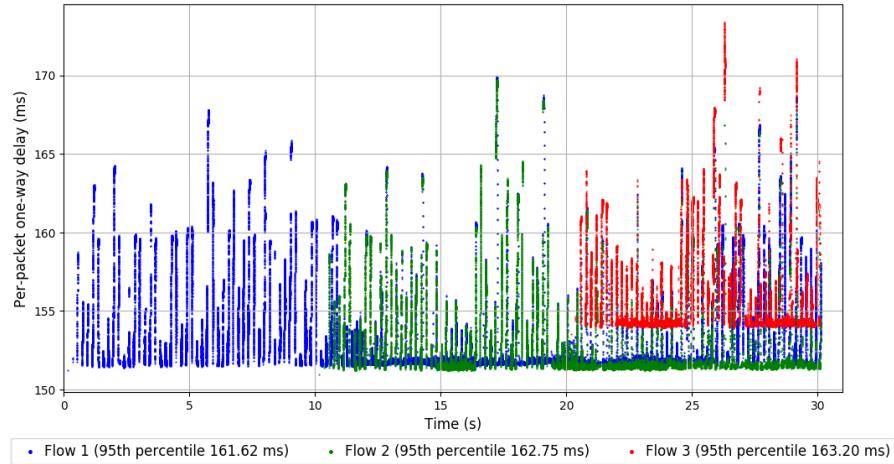
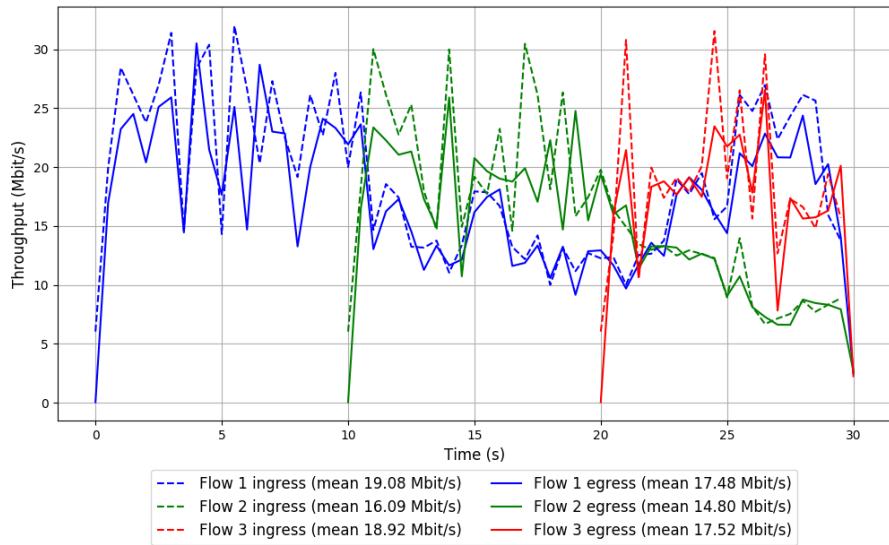


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-17 18:21:45
End at: 2018-04-17 18:22:15
Local clock offset: 4.423 ms
Remote clock offset: 3.733 ms

# Below is generated by plot.py at 2018-04-17 21:11:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.13 Mbit/s
95th percentile per-packet one-way delay: 162.488 ms
Loss rate: 8.11%
-- Flow 1:
Average throughput: 17.48 Mbit/s
95th percentile per-packet one-way delay: 161.623 ms
Loss rate: 8.39%
-- Flow 2:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 162.753 ms
Loss rate: 8.05%
-- Flow 3:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 163.203 ms
Loss rate: 7.36%
```

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

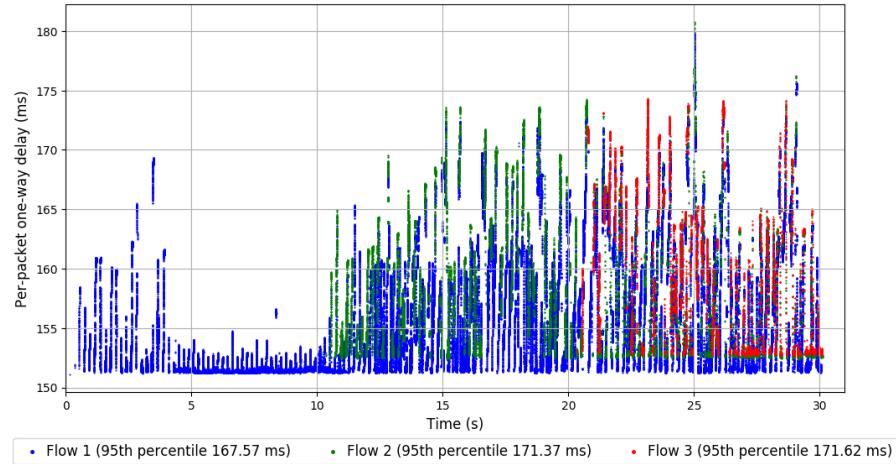
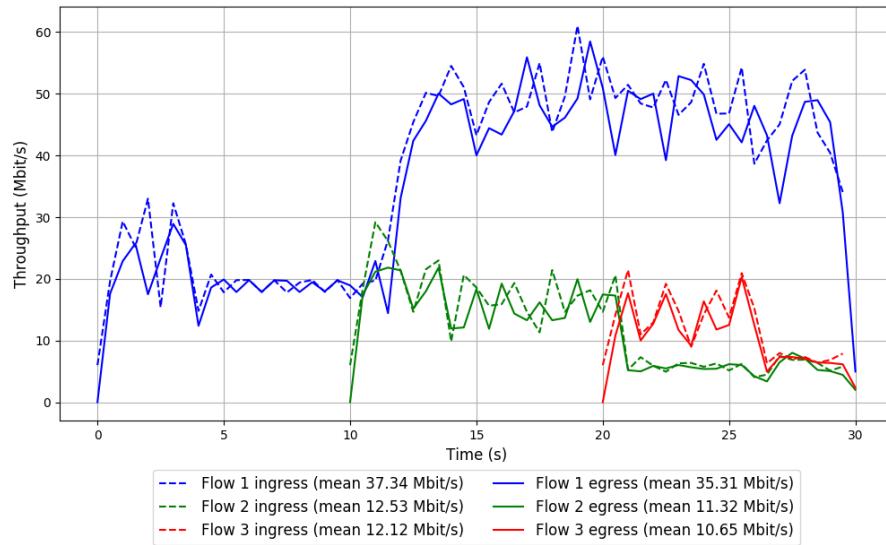


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-17 18:44:45
End at: 2018-04-17 18:45:15
Local clock offset: 5.924 ms
Remote clock offset: 1.633 ms

# Below is generated by plot.py at 2018-04-17 21:11:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.31 Mbit/s
95th percentile per-packet one-way delay: 168.631 ms
Loss rate: 6.71%
-- Flow 1:
Average throughput: 35.31 Mbit/s
95th percentile per-packet one-way delay: 167.567 ms
Loss rate: 5.46%
-- Flow 2:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 171.366 ms
Loss rate: 9.66%
-- Flow 3:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 171.618 ms
Loss rate: 12.15%
```

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

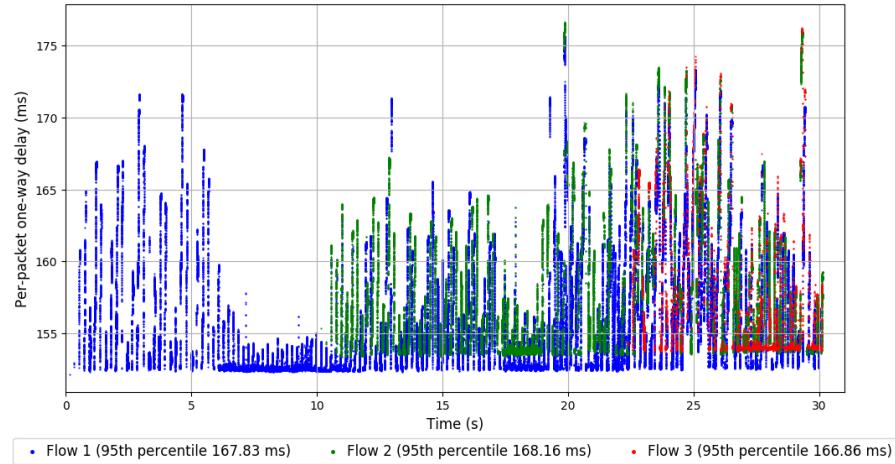
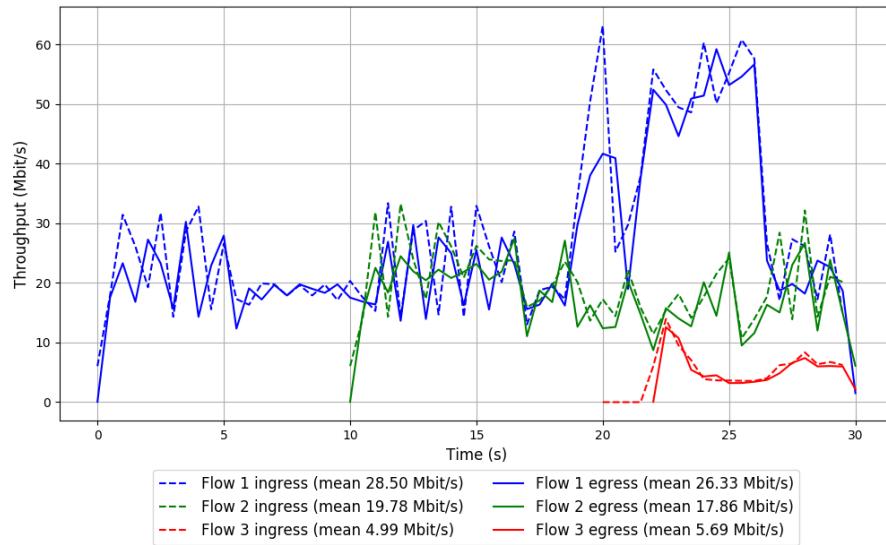


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-17 19:07:51
End at: 2018-04-17 19:08:21
Local clock offset: 7.75 ms
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2018-04-17 21:11:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 167.908 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 26.33 Mbit/s
95th percentile per-packet one-way delay: 167.830 ms
Loss rate: 7.60%
-- Flow 2:
Average throughput: 17.86 Mbit/s
95th percentile per-packet one-way delay: 168.156 ms
Loss rate: 9.72%
-- Flow 3:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 166.859 ms
Loss rate: 9.08%
```

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

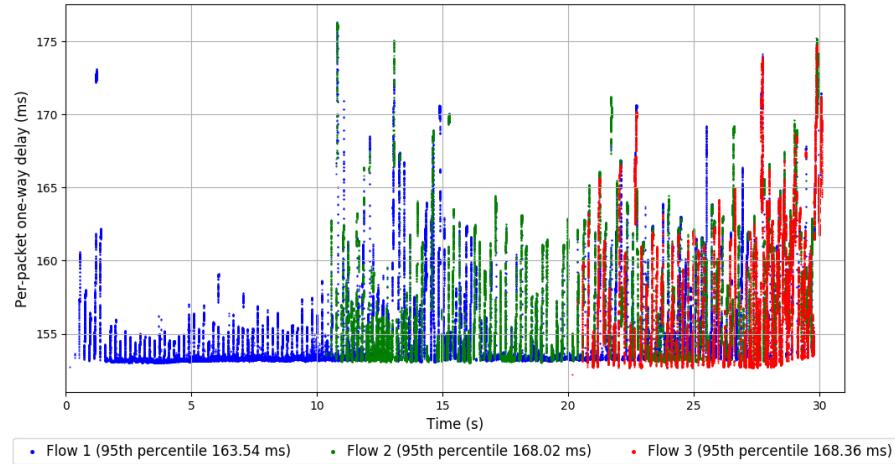
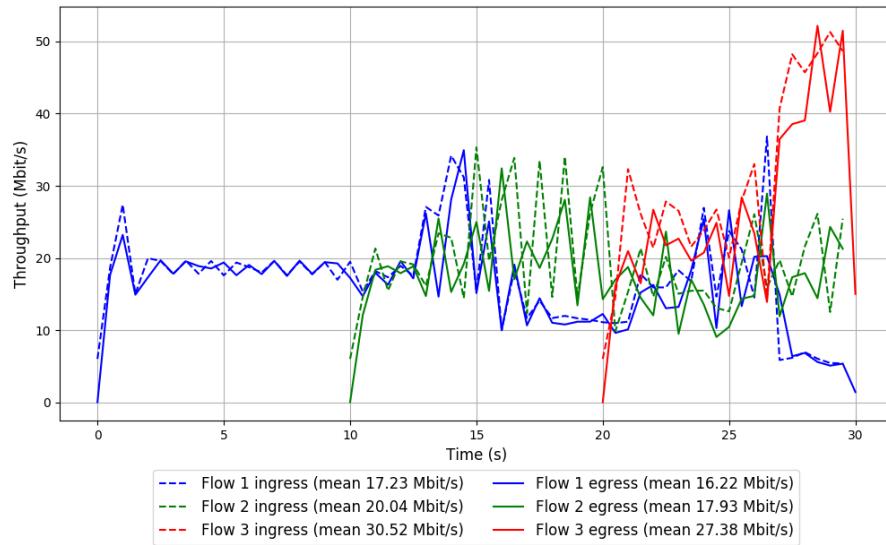


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-17 19:30:46
End at: 2018-04-17 19:31:16
Local clock offset: 11.563 ms
Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2018-04-17 21:11:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 166.390 ms
Loss rate: 8.43%
-- Flow 1:
Average throughput: 16.22 Mbit/s
95th percentile per-packet one-way delay: 163.539 ms
Loss rate: 5.84%
-- Flow 2:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 168.017 ms
Loss rate: 10.44%
-- Flow 3:
Average throughput: 27.38 Mbit/s
95th percentile per-packet one-way delay: 168.359 ms
Loss rate: 10.20%
```

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

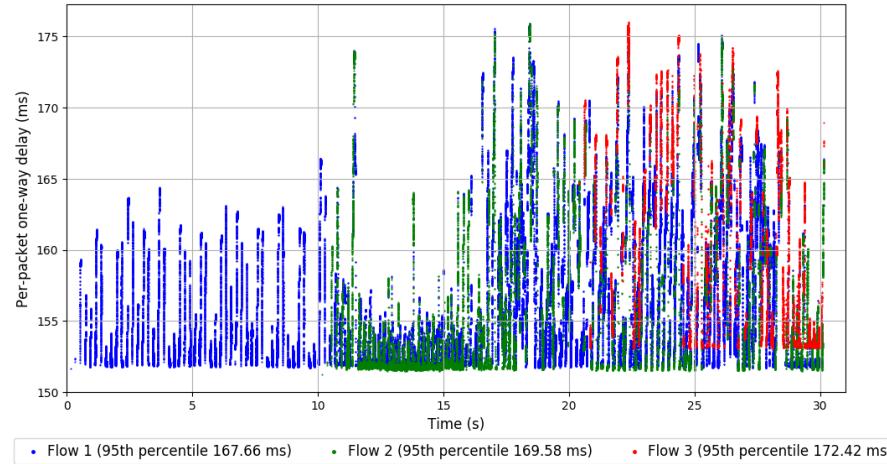
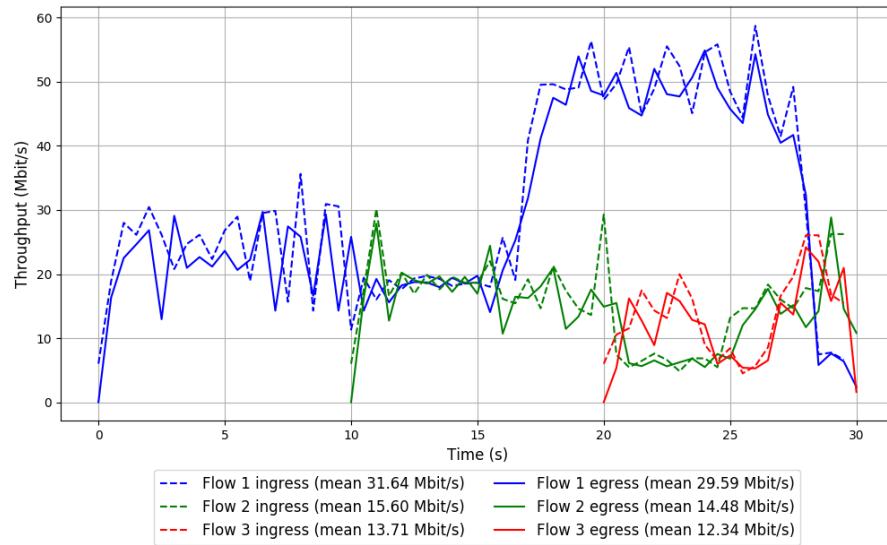


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-17 19:53:41
End at: 2018-04-17 19:54:11
Local clock offset: 4.077 ms
Remote clock offset: -1.362 ms

# Below is generated by plot.py at 2018-04-17 21:12:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.33 Mbit/s
95th percentile per-packet one-way delay: 168.968 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 167.665 ms
Loss rate: 6.43%
-- Flow 2:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 169.583 ms
Loss rate: 7.13%
-- Flow 3:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 172.422 ms
Loss rate: 9.90%
```

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

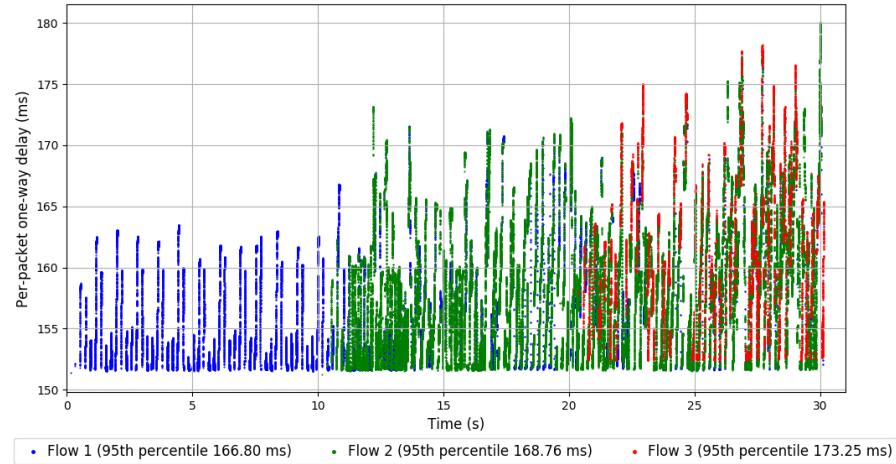
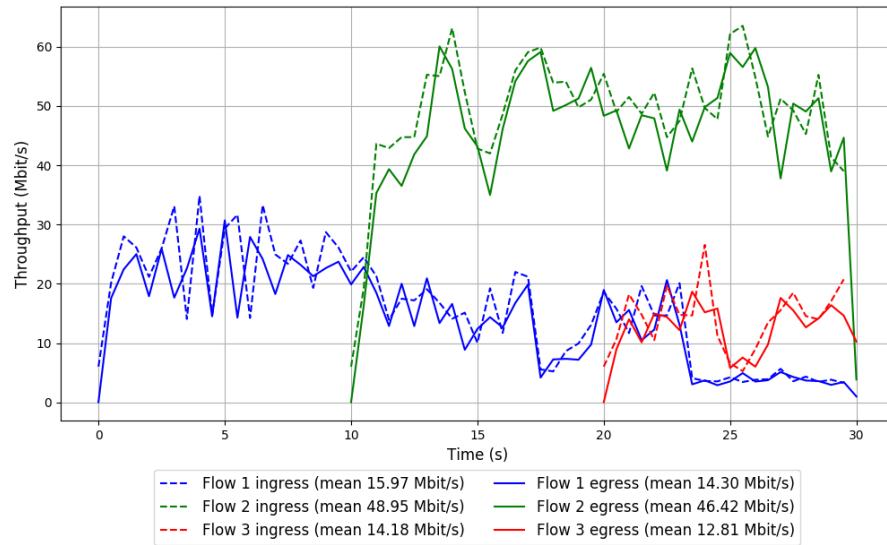


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-17 20:16:31
End at: 2018-04-17 20:17:01
Local clock offset: 3.367 ms
Remote clock offset: -1.222 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.48 Mbit/s
95th percentile per-packet one-way delay: 169.137 ms
Loss rate: 7.11%
-- Flow 1:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 166.797 ms
Loss rate: 10.44%
-- Flow 2:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 168.758 ms
Loss rate: 5.12%
-- Flow 3:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 173.251 ms
Loss rate: 9.61%
```

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

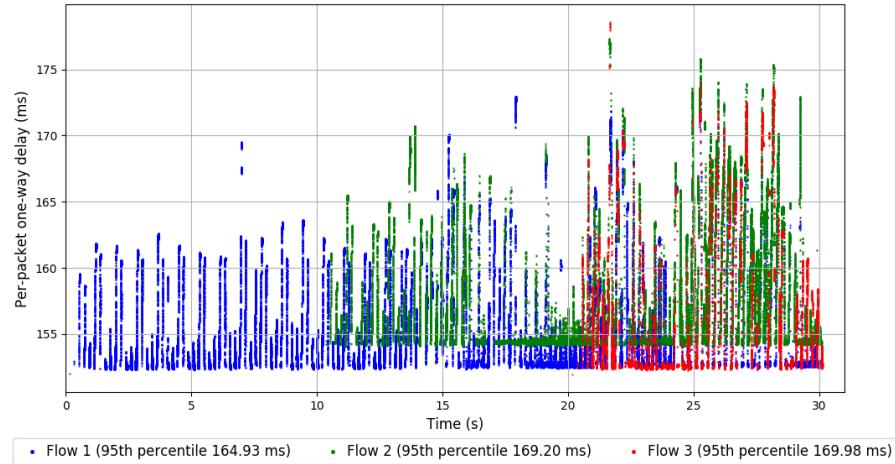
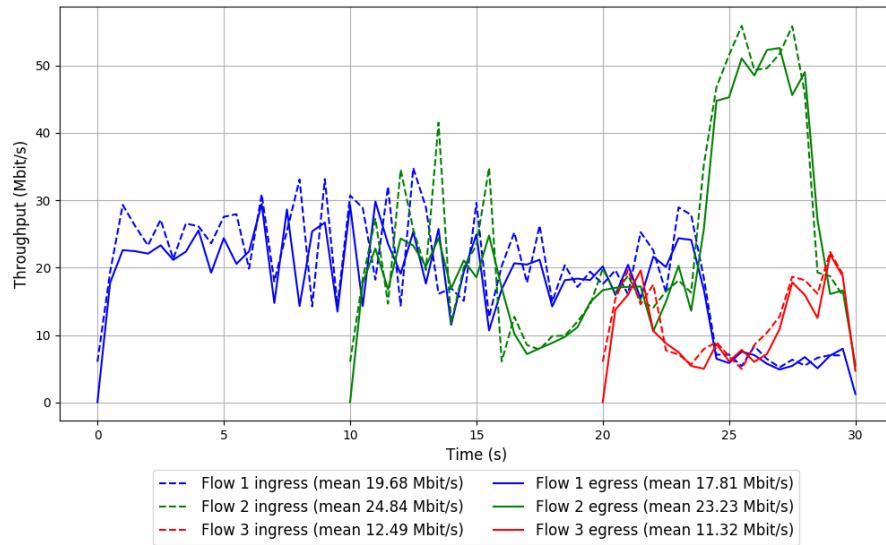


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-17 20:39:45
End at: 2018-04-17 20:40:15
Local clock offset: 5.247 ms
Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 168.312 ms
Loss rate: 8.24%
-- Flow 1:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 164.928 ms
Loss rate: 9.48%
-- Flow 2:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 169.201 ms
Loss rate: 6.48%
-- Flow 3:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 169.982 ms
Loss rate: 9.36%
```

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

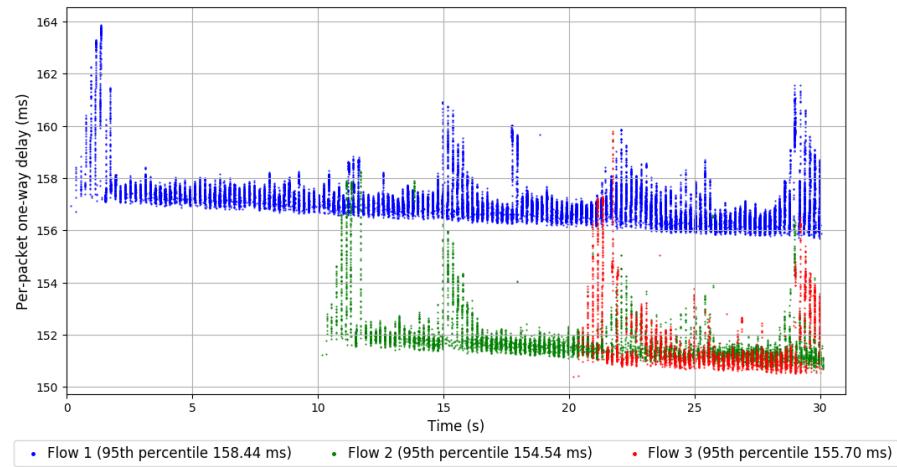
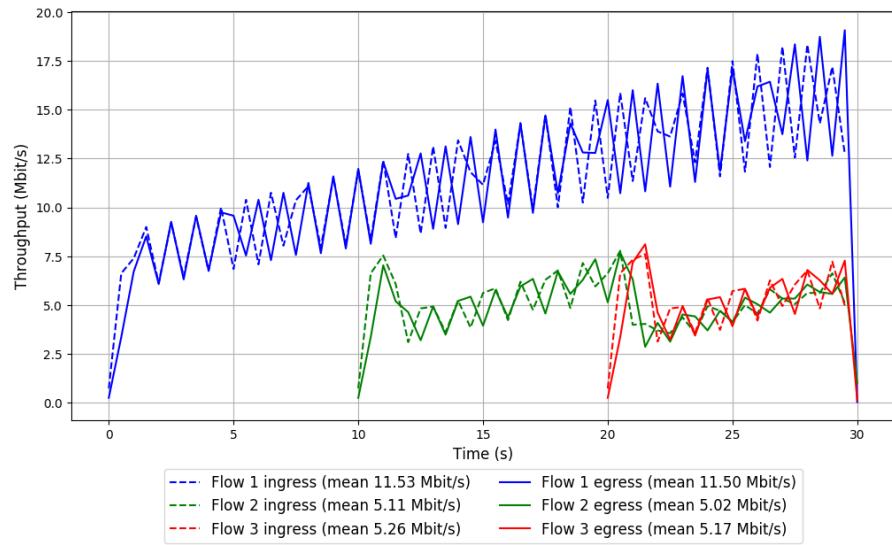


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-17 17:14:32
End at: 2018-04-17 17:15:02
Local clock offset: 5.403 ms
Remote clock offset: -5.273 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 158.000 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 158.439 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 154.542 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 155.699 ms
Loss rate: 1.79%
```

Run 1: Report of TCP Vegas — Data Link

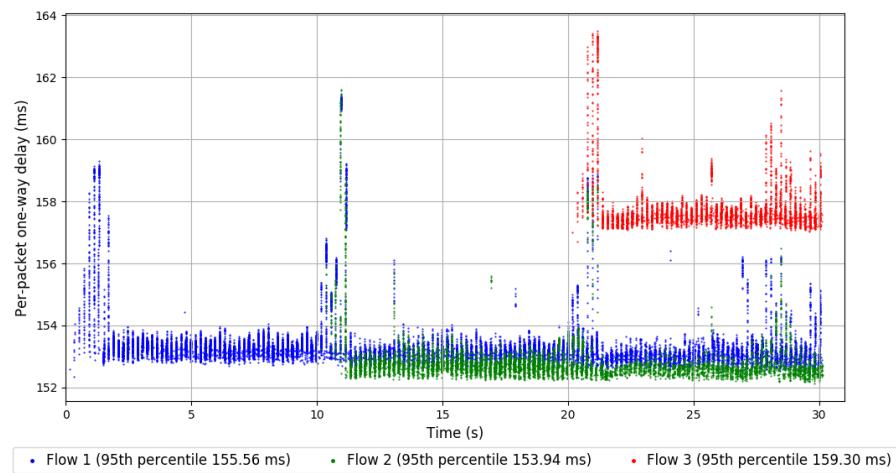
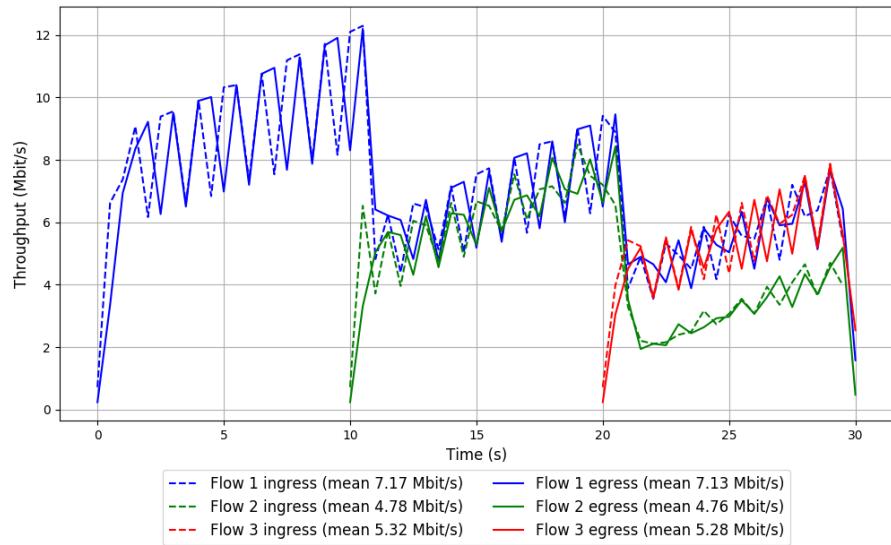


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-17 17:37:31
End at: 2018-04-17 17:38:01
Local clock offset: 7.185 ms
Remote clock offset: 6.103 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 157.841 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 155.561 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 153.943 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 159.296 ms
Loss rate: 0.59%
```

Run 2: Report of TCP Vegas — Data Link

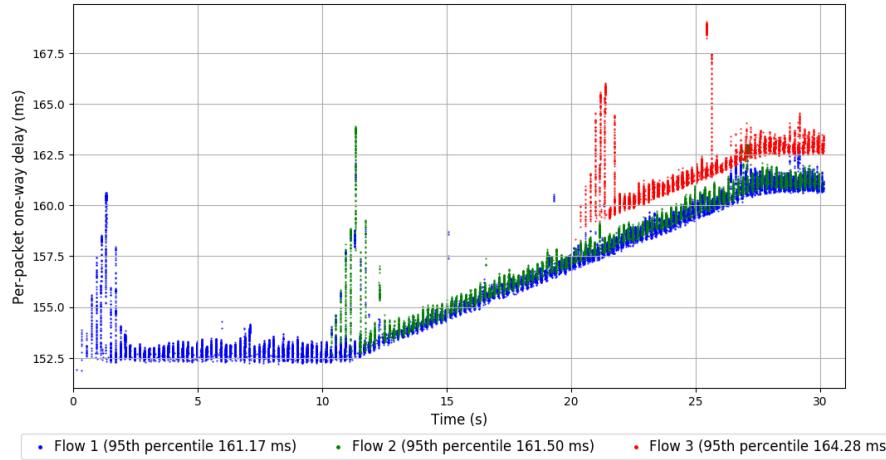
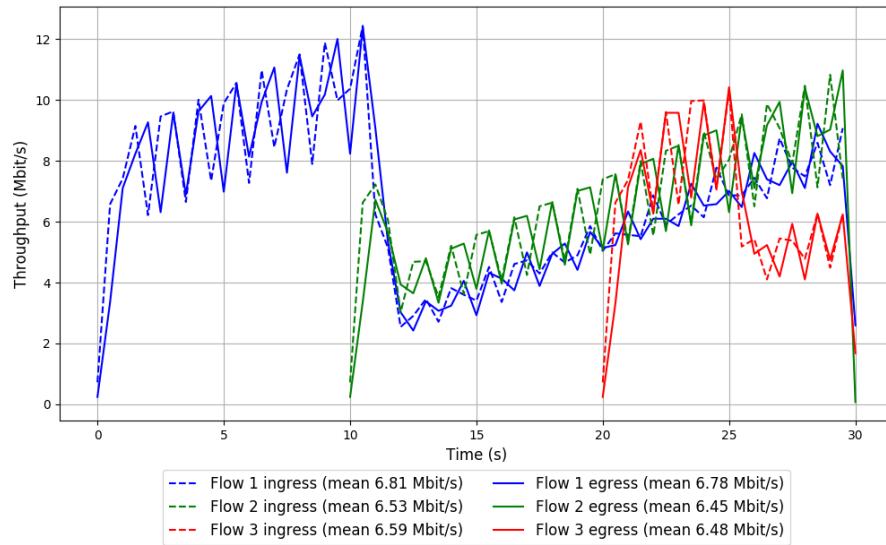


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-17 18:00:27
End at: 2018-04-17 18:00:57
Local clock offset: 6.51 ms
Remote clock offset: 2.148 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 162.709 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 161.167 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 161.501 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 164.283 ms
Loss rate: 1.67%
```

Run 3: Report of TCP Vegas — Data Link

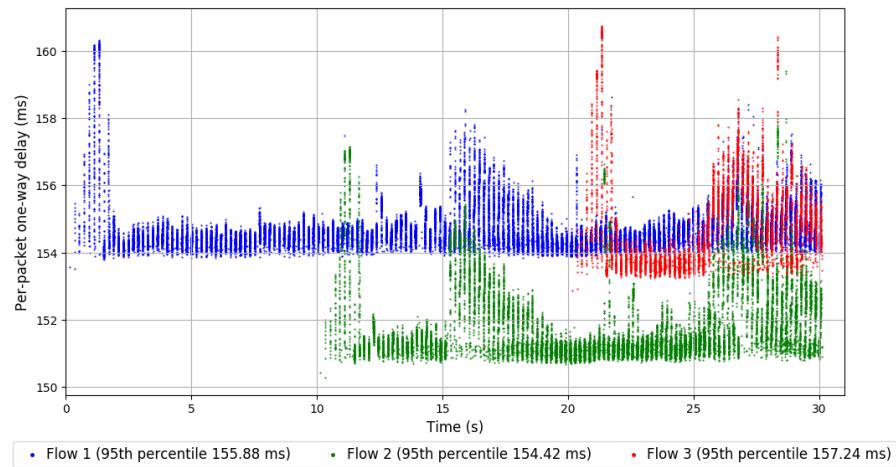
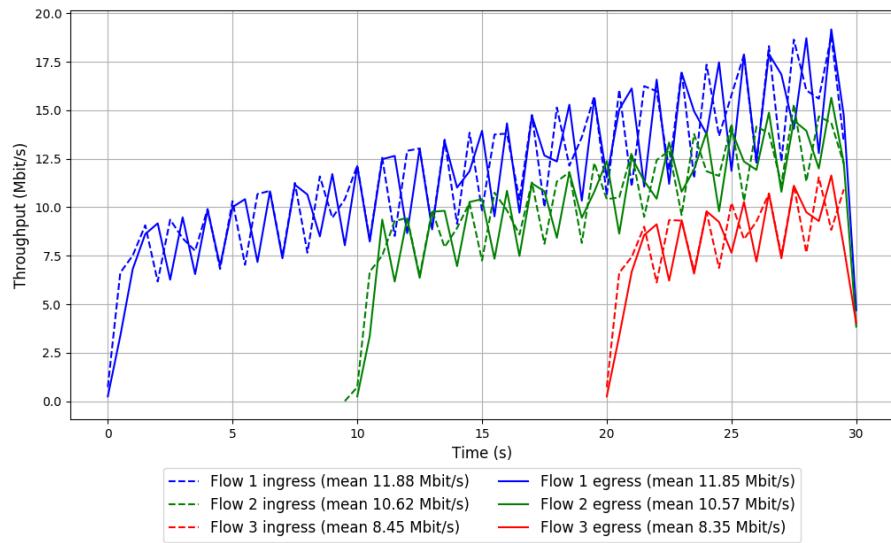


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-17 18:23:06
End at: 2018-04-17 18:23:36
Local clock offset: 4.28 ms
Remote clock offset: 3.335 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.66 Mbit/s
95th percentile per-packet one-way delay: 155.967 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 155.875 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 154.423 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 157.239 ms
Loss rate: 1.14%
```

Run 4: Report of TCP Vegas — Data Link

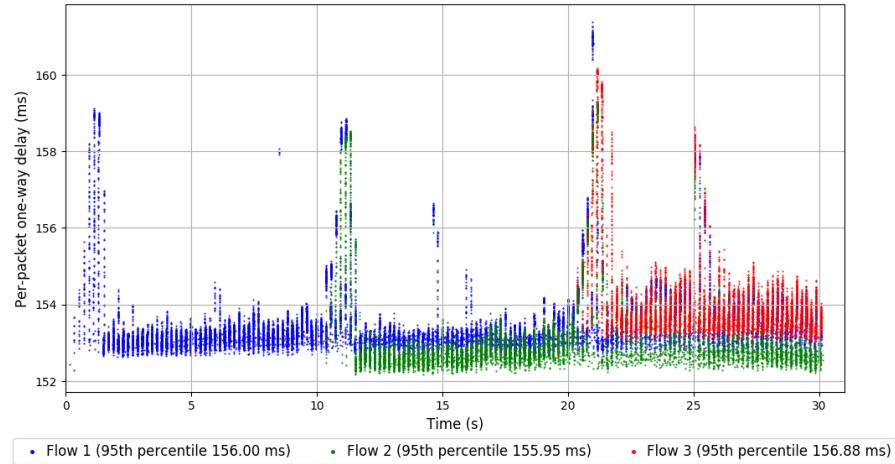
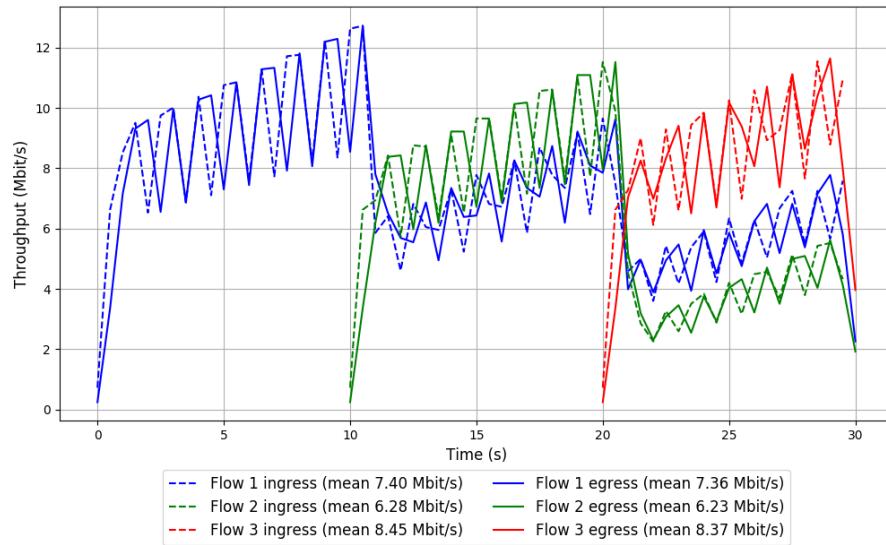


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-17 18:46:07
End at: 2018-04-17 18:46:37
Local clock offset: 5.993 ms
Remote clock offset: 1.605 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.26 Mbit/s
95th percentile per-packet one-way delay: 156.098 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 155.999 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 155.946 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 156.883 ms
Loss rate: 1.02%
```

Run 5: Report of TCP Vegas — Data Link

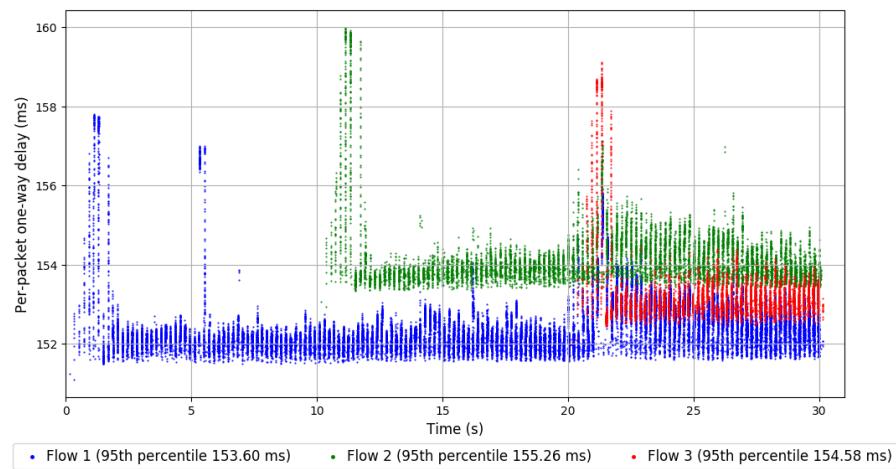
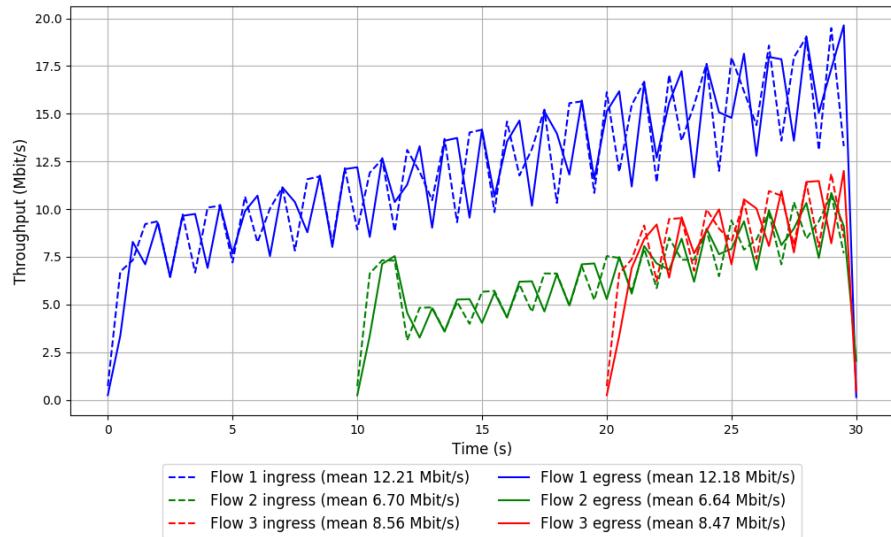


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-17 19:09:12
End at: 2018-04-17 19:09:42
Local clock offset: 8.281 ms
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.40 Mbit/s
95th percentile per-packet one-way delay: 154.656 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 153.601 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 155.264 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 154.582 ms
Loss rate: 1.08%
```

Run 6: Report of TCP Vegas — Data Link

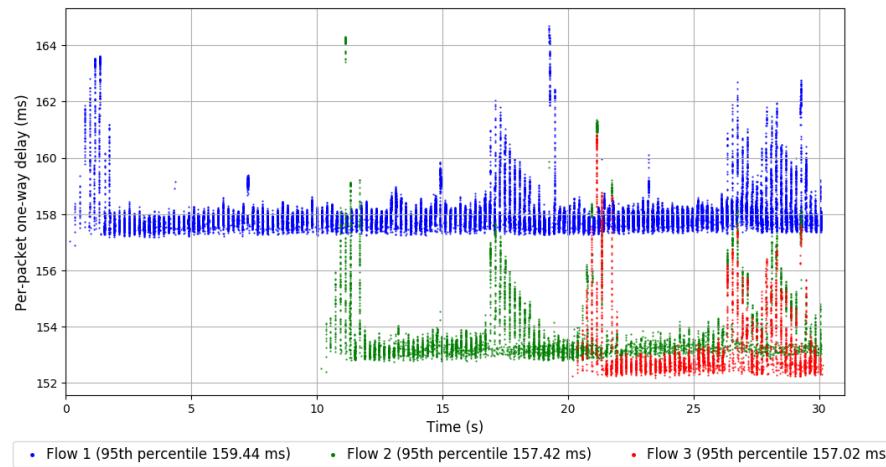
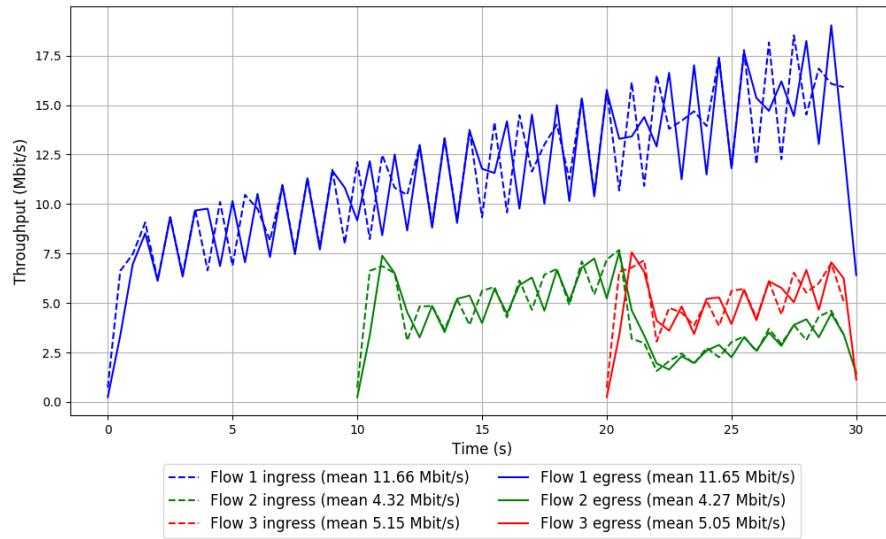


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-17 19:32:07
End at: 2018-04-17 19:32:37
Local clock offset: 11.903 ms
Remote clock offset: -1.051 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 159.173 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 159.444 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 157.416 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 157.023 ms
Loss rate: 1.95%
```

Run 7: Report of TCP Vegas — Data Link

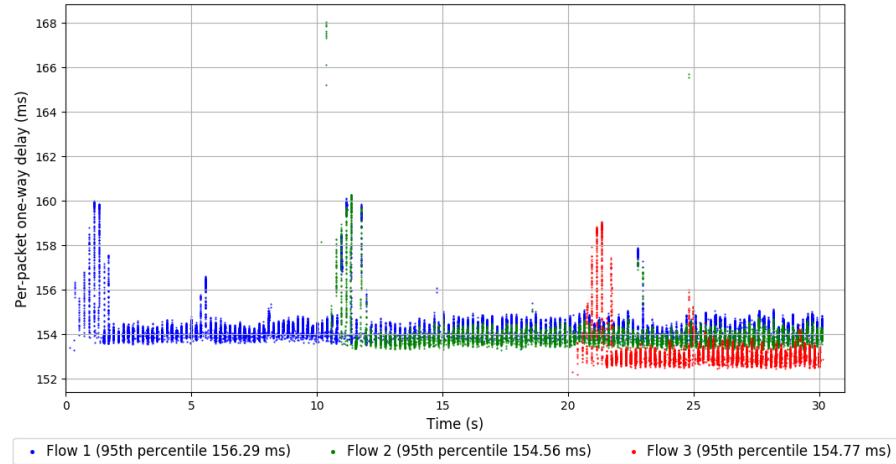
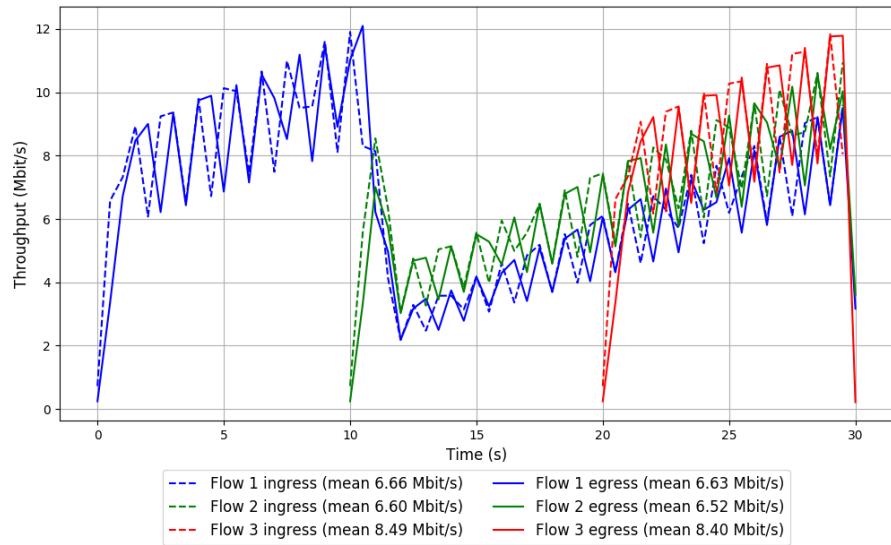


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-17 19:55:03
End at: 2018-04-17 19:55:33
Local clock offset: 3.801 ms
Remote clock offset: -1.506 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 155.343 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 156.292 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 154.557 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 154.773 ms
Loss rate: 1.08%
```

Run 8: Report of TCP Vegas — Data Link

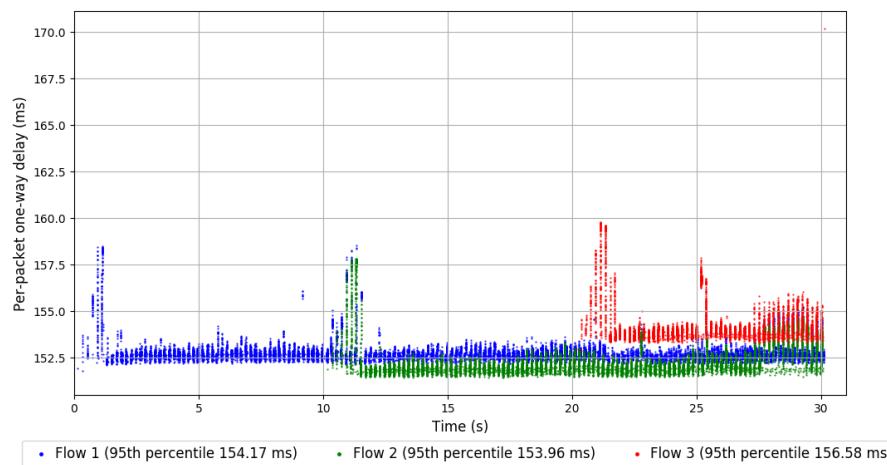
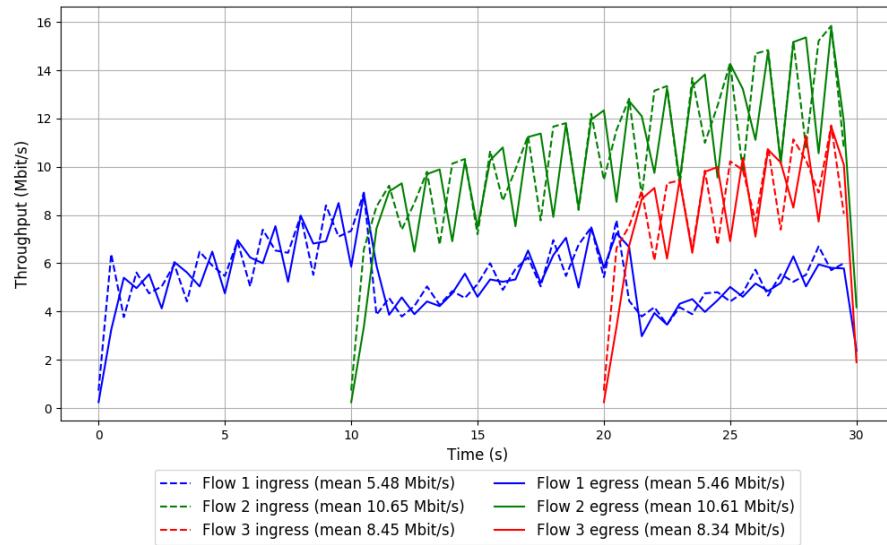


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-17 20:17:53
End at: 2018-04-17 20:18:23
Local clock offset: 3.723 ms
Remote clock offset: -1.252 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 154.593 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 154.172 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 153.964 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 156.583 ms
Loss rate: 1.11%
```

Run 9: Report of TCP Vegas — Data Link

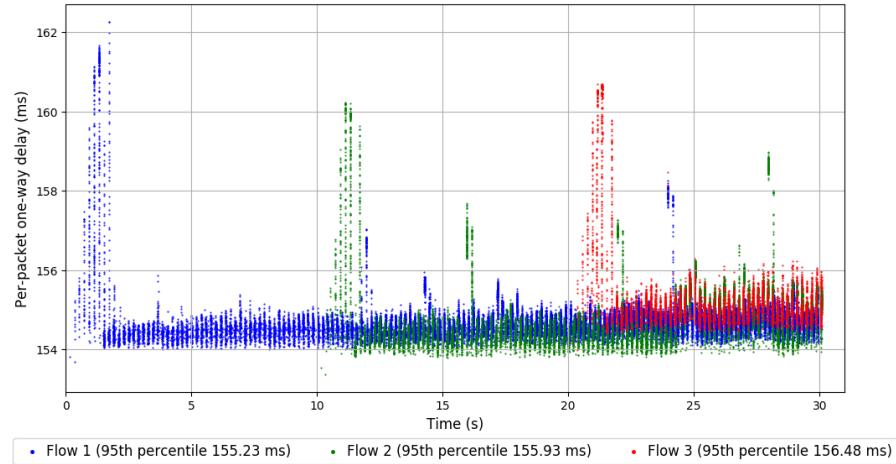
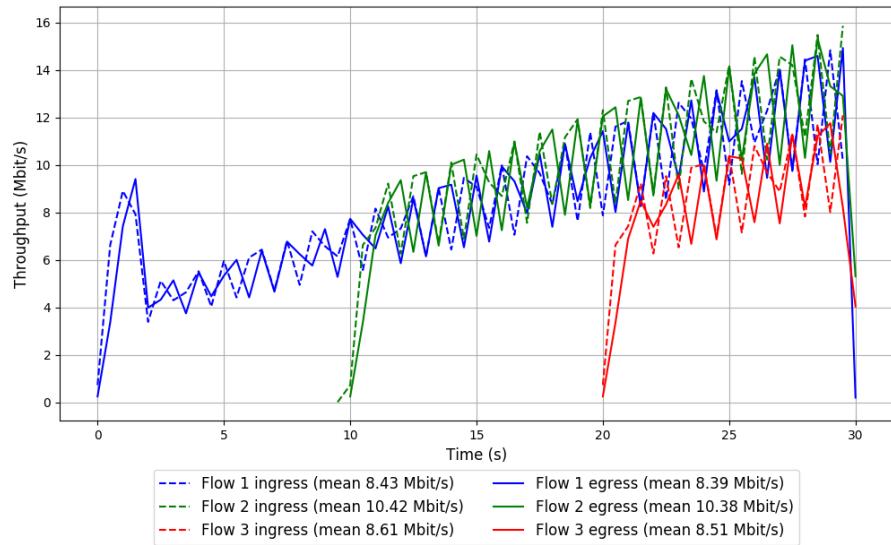


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-17 20:41:06
End at: 2018-04-17 20:41:36
Local clock offset: 5.354 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 155.740 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 155.230 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 10.38 Mbit/s
95th percentile per-packet one-way delay: 155.925 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 156.476 ms
Loss rate: 1.11%
```

Run 10: Report of TCP Vegas — Data Link

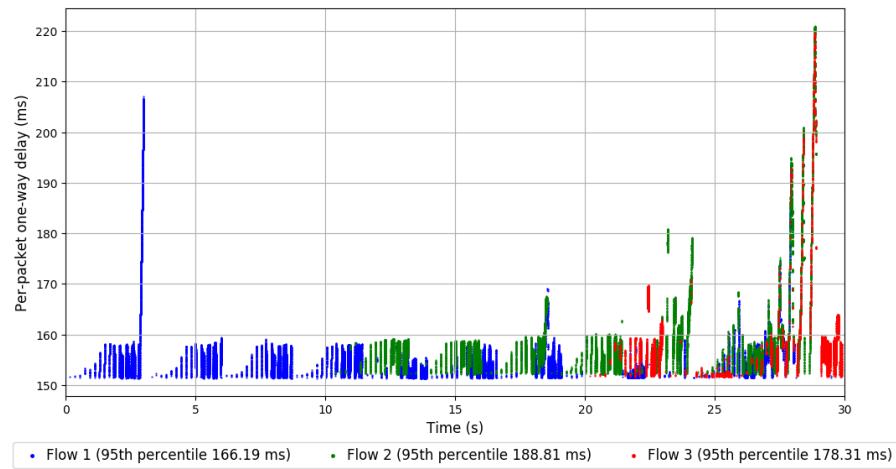
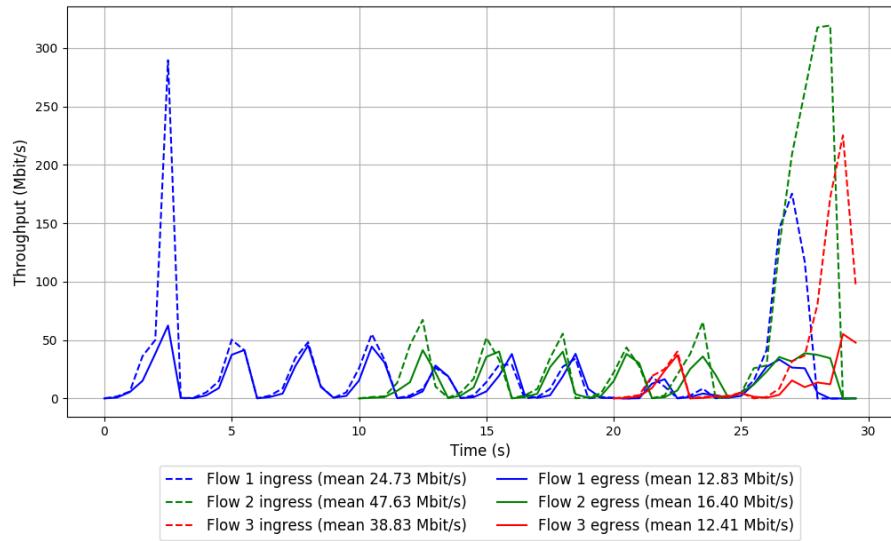


Run 1: Statistics of Verus

```
Start at: 2018-04-17 17:00:48
End at: 2018-04-17 17:01:18
Local clock offset: 5.951 ms
Remote clock offset: -2.583 ms

# Below is generated by plot.py at 2018-04-17 21:12:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.73 Mbit/s
95th percentile per-packet one-way delay: 178.996 ms
Loss rate: 59.76%
-- Flow 1:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 166.186 ms
Loss rate: 48.12%
-- Flow 2:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 188.814 ms
Loss rate: 65.55%
-- Flow 3:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 178.306 ms
Loss rate: 68.01%
```

Run 1: Report of Verus — Data Link

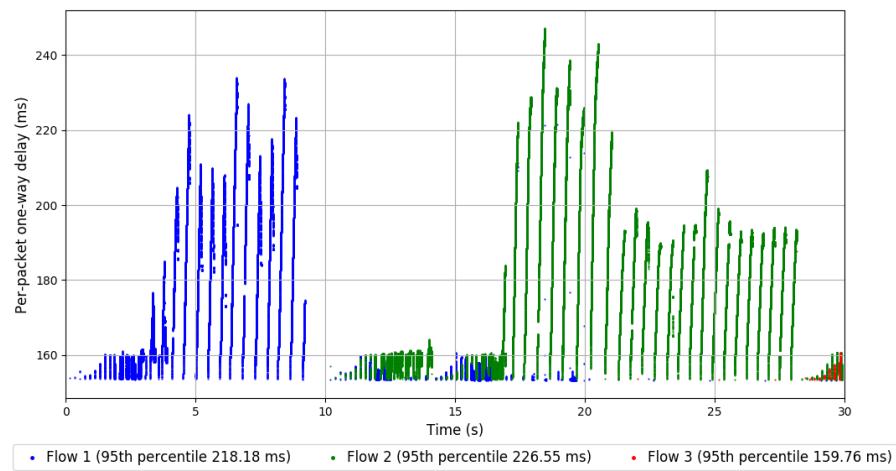
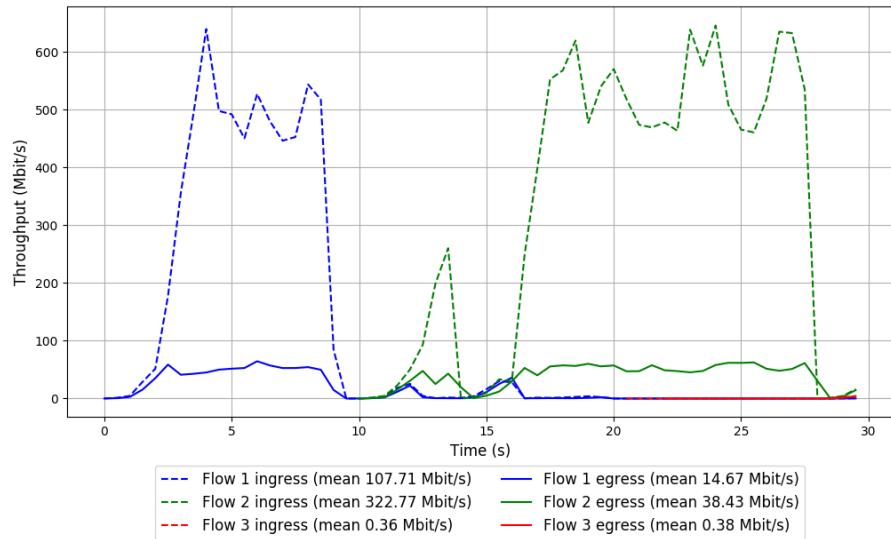


Run 2: Statistics of Verus

```
Start at: 2018-04-17 17:23:43
End at: 2018-04-17 17:24:13
Local clock offset: 6.052 ms
Remote clock offset: -3.203 ms

# Below is generated by plot.py at 2018-04-17 21:14:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 223.361 ms
Loss rate: 87.52%
-- Flow 1:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 218.180 ms
Loss rate: 86.47%
-- Flow 2:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 226.552 ms
Loss rate: 88.09%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 159.758 ms
Loss rate: 7.46%
```

Run 2: Report of Verus — Data Link

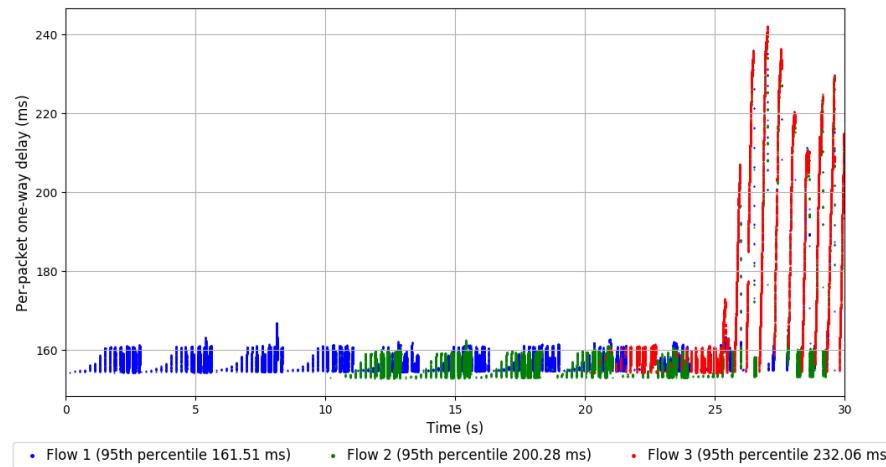
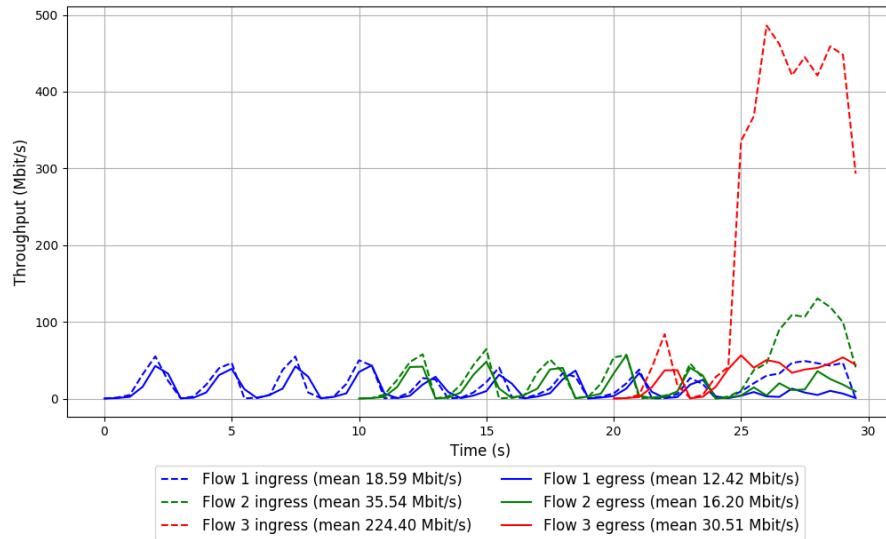


Run 3: Statistics of Verus

```
Start at: 2018-04-17 17:46:42
End at: 2018-04-17 17:47:12
Local clock offset: 7.866 ms
Remote clock offset: 9.988 ms

# Below is generated by plot.py at 2018-04-17 21:14:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 217.600 ms
Loss rate: 71.32%
-- Flow 1:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 161.514 ms
Loss rate: 33.62%
-- Flow 2:
Average throughput: 16.20 Mbit/s
95th percentile per-packet one-way delay: 200.276 ms
Loss rate: 54.29%
-- Flow 3:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 232.062 ms
Loss rate: 86.32%
```

Run 3: Report of Verus — Data Link

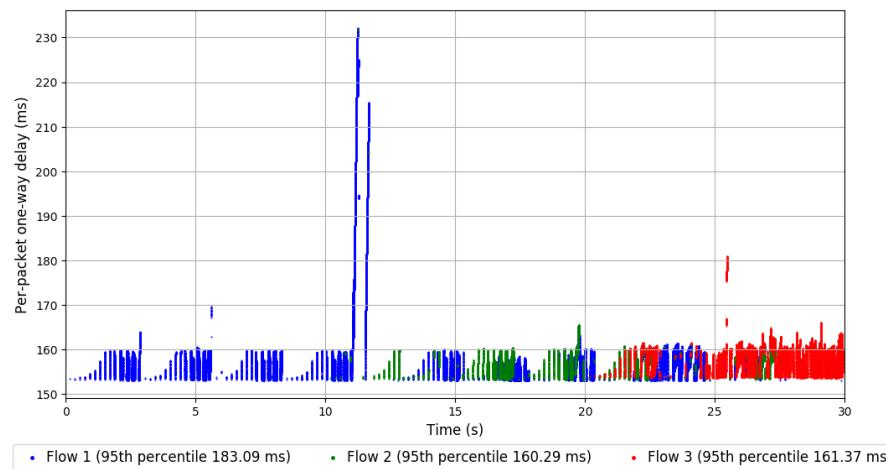
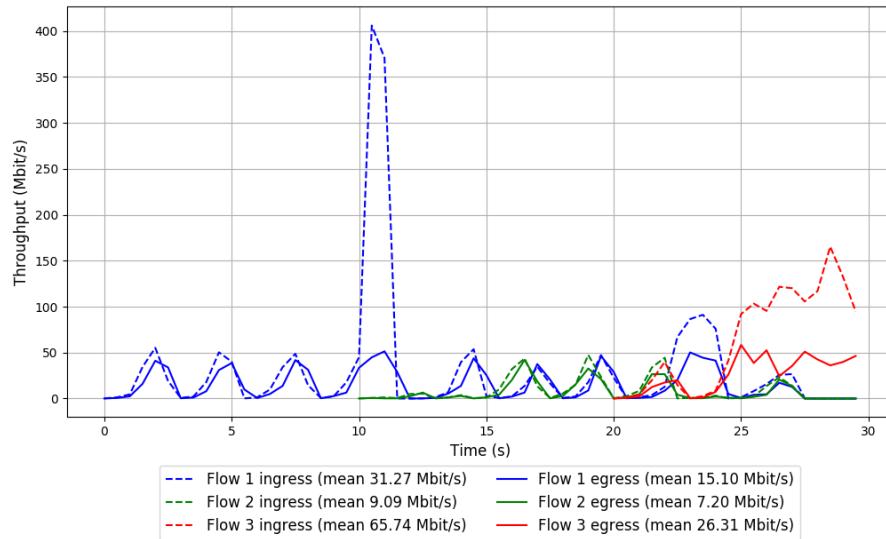


Run 4: Statistics of Verus

```
Start at: 2018-04-17 18:09:38
End at: 2018-04-17 18:10:08
Local clock offset: 5.139 ms
Remote clock offset: -6.871 ms

# Below is generated by plot.py at 2018-04-17 21:14:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 163.243 ms
Loss rate: 51.64%
-- Flow 1:
Average throughput: 15.10 Mbit/s
95th percentile per-packet one-way delay: 183.095 ms
Loss rate: 51.70%
-- Flow 2:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 160.295 ms
Loss rate: 21.64%
-- Flow 3:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 161.365 ms
Loss rate: 59.95%
```

Run 4: Report of Verus — Data Link

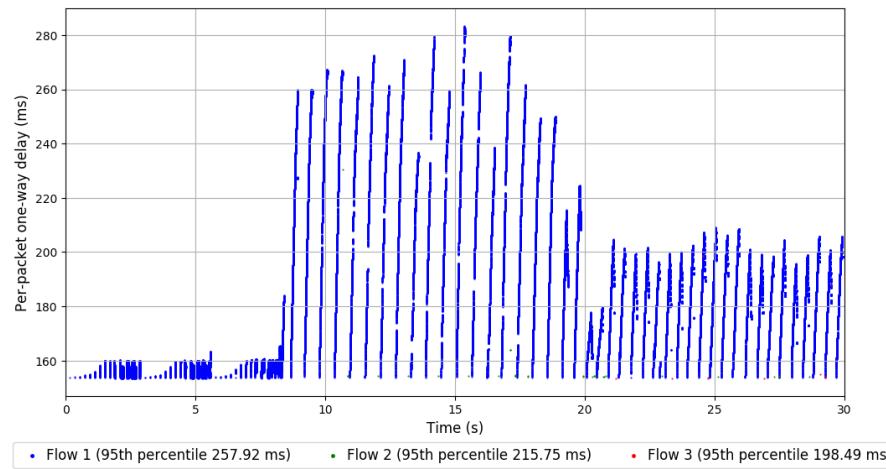
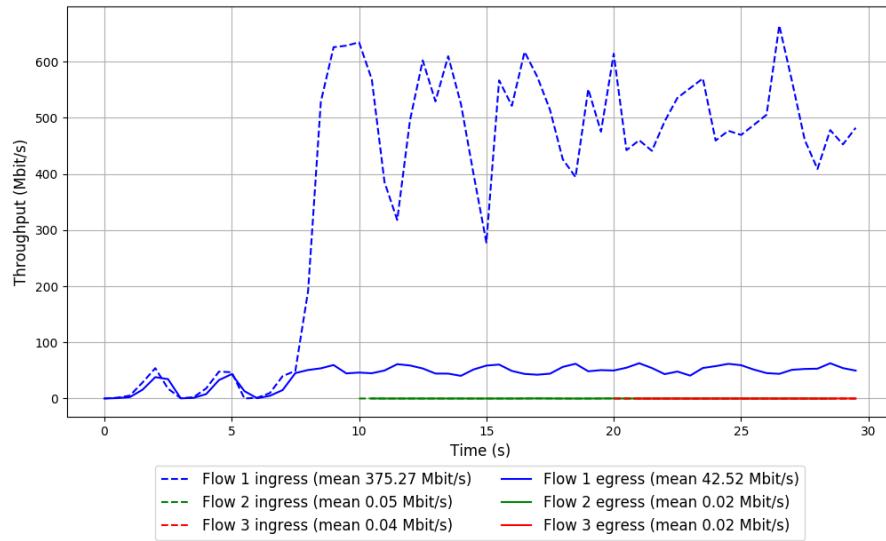


Run 5: Statistics of Verus

```
Start at: 2018-04-17 18:32:18
End at: 2018-04-17 18:32:48
Local clock offset: 4.535 ms
Remote clock offset: 1.921 ms

# Below is generated by plot.py at 2018-04-17 21:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.54 Mbit/s
95th percentile per-packet one-way delay: 257.923 ms
Loss rate: 88.65%
-- Flow 1:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 257.924 ms
Loss rate: 88.65%
-- Flow 2:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 215.755 ms
Loss rate: 60.47%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 198.485 ms
Loss rate: 63.33%
```

Run 5: Report of Verus — Data Link

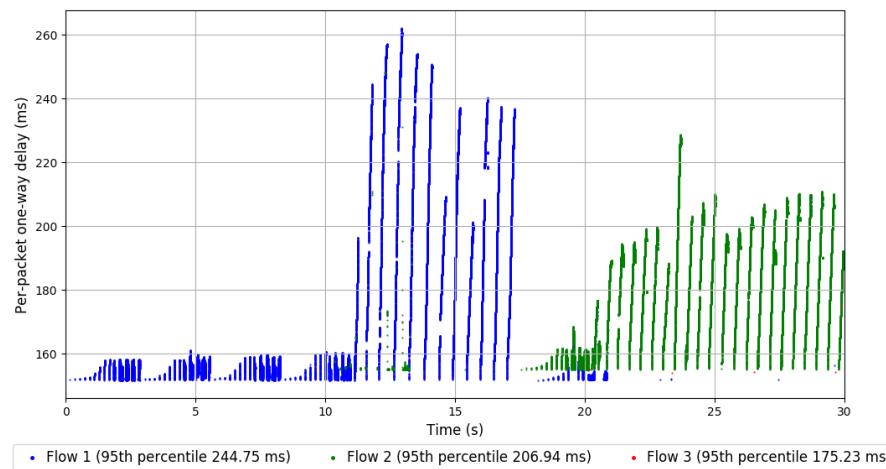
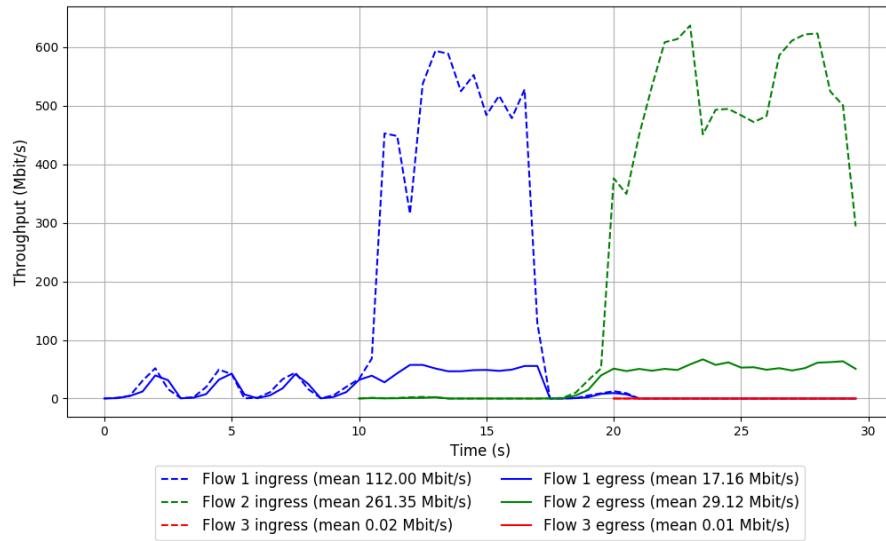


Run 6: Statistics of Verus

```
Start at: 2018-04-17 18:55:23
End at: 2018-04-17 18:55:53
Local clock offset: 6.044 ms
Remote clock offset: 1.77 ms

# Below is generated by plot.py at 2018-04-17 21:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 233.755 ms
Loss rate: 87.21%
-- Flow 1:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 244.748 ms
Loss rate: 84.68%
-- Flow 2:
Average throughput: 29.12 Mbit/s
95th percentile per-packet one-way delay: 206.944 ms
Loss rate: 88.84%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 175.234 ms
Loss rate: 72.22%
```

Run 6: Report of Verus — Data Link

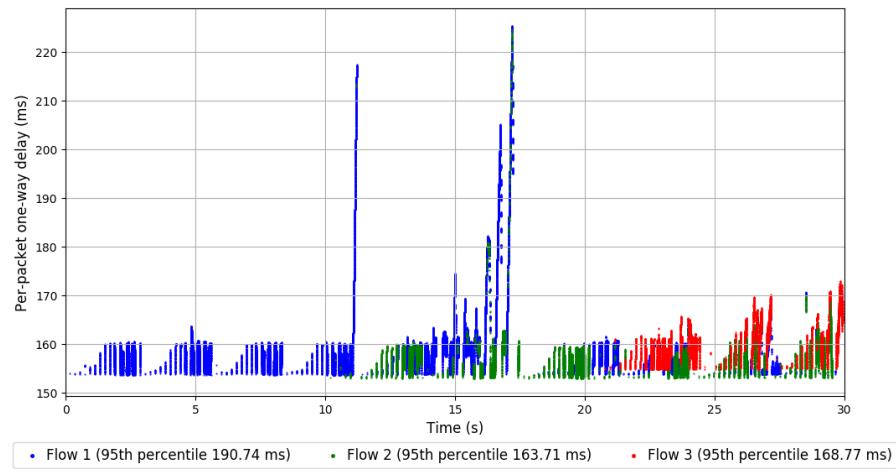
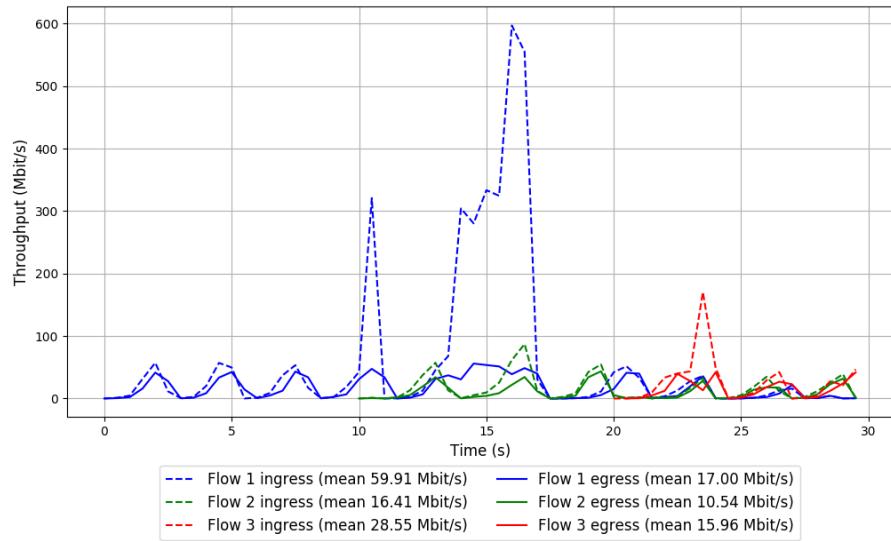


Run 7: Statistics of Verus

```
Start at: 2018-04-17 19:18:25
End at: 2018-04-17 19:18:55
Local clock offset: 10.222 ms
Remote clock offset: -0.845 ms

# Below is generated by plot.py at 2018-04-17 21:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 179.823 ms
Loss rate: 63.62%
-- Flow 1:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 190.742 ms
Loss rate: 71.61%
-- Flow 2:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 163.708 ms
Loss rate: 35.70%
-- Flow 3:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 168.766 ms
Loss rate: 44.08%
```

Run 7: Report of Verus — Data Link

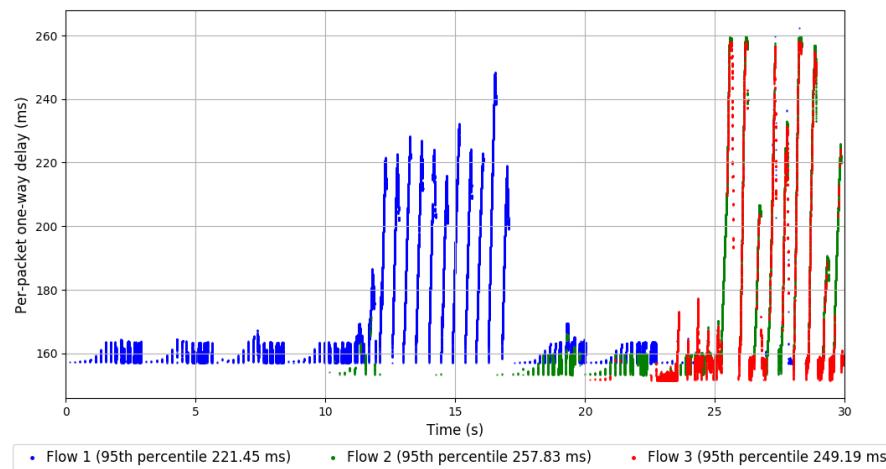
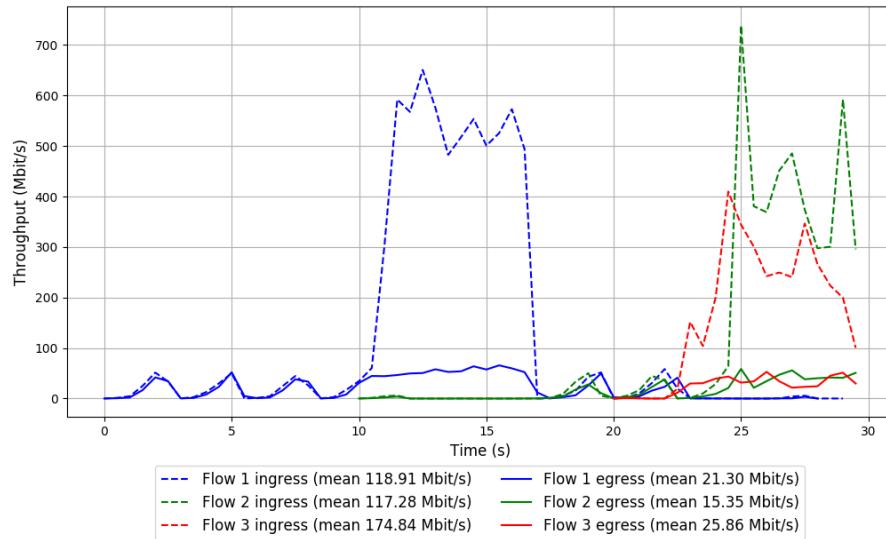


Run 8: Statistics of Verus

```
Start at: 2018-04-17 19:41:18
End at: 2018-04-17 19:41:48
Local clock offset: 9.306 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2018-04-17 21:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 243.615 ms
Loss rate: 84.59%
-- Flow 1:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 221.448 ms
Loss rate: 82.80%
-- Flow 2:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 257.826 ms
Loss rate: 86.87%
-- Flow 3:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 249.186 ms
Loss rate: 85.20%
```

Run 8: Report of Verus — Data Link

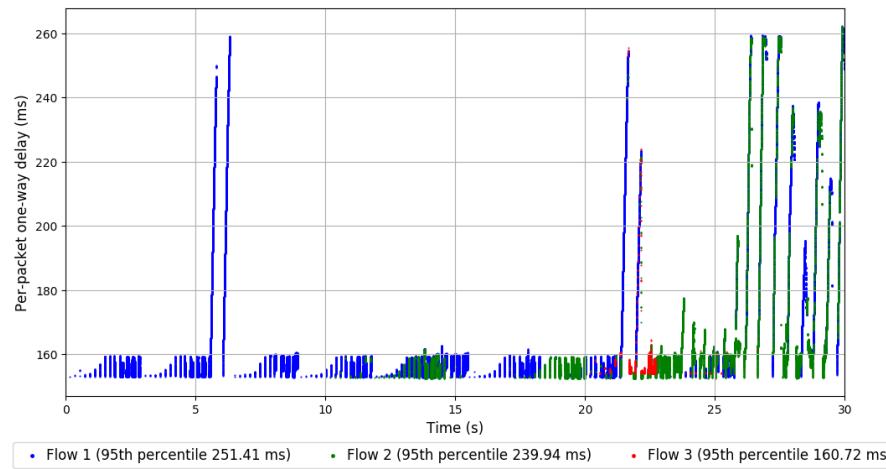
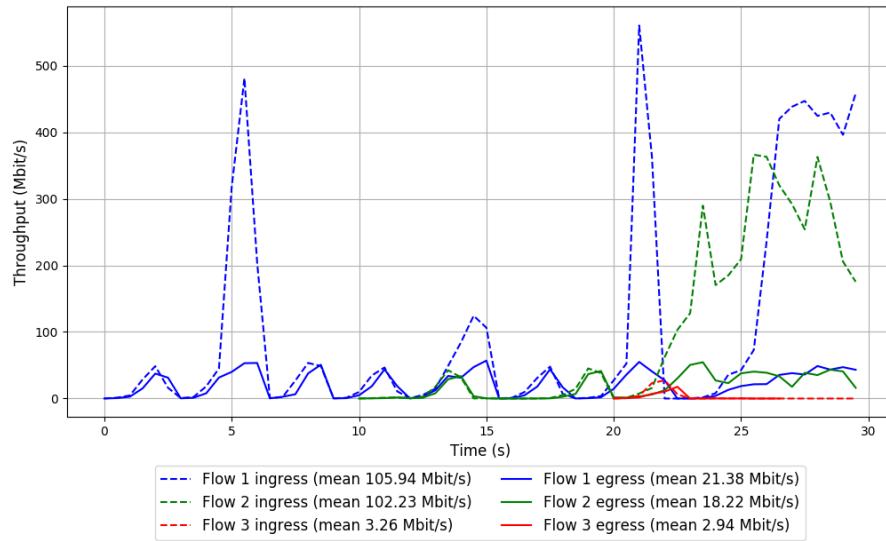


Run 9: Statistics of Verus

```
Start at: 2018-04-17 20:04:16
End at: 2018-04-17 20:04:46
Local clock offset: 2.726 ms
Remote clock offset: -1.848 ms

# Below is generated by plot.py at 2018-04-17 21:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 248.692 ms
Loss rate: 80.41%
-- Flow 1:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 251.415 ms
Loss rate: 79.75%
-- Flow 2:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 239.938 ms
Loss rate: 82.08%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 160.715 ms
Loss rate: 39.63%
```

Run 9: Report of Verus — Data Link

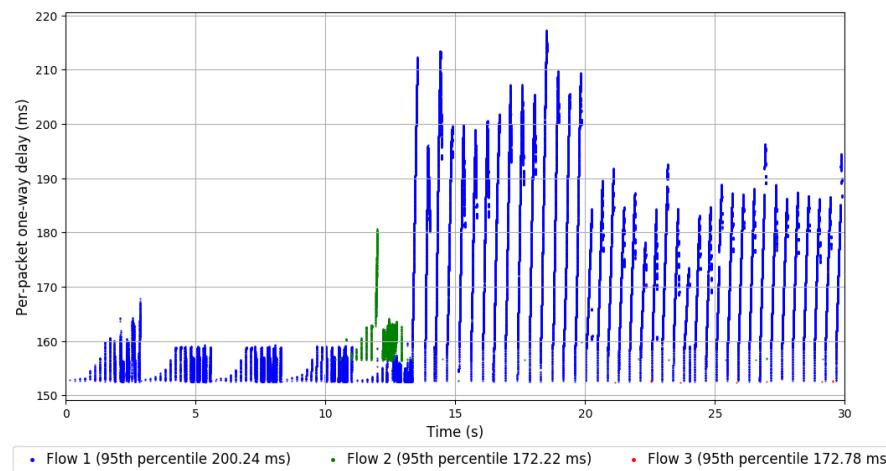
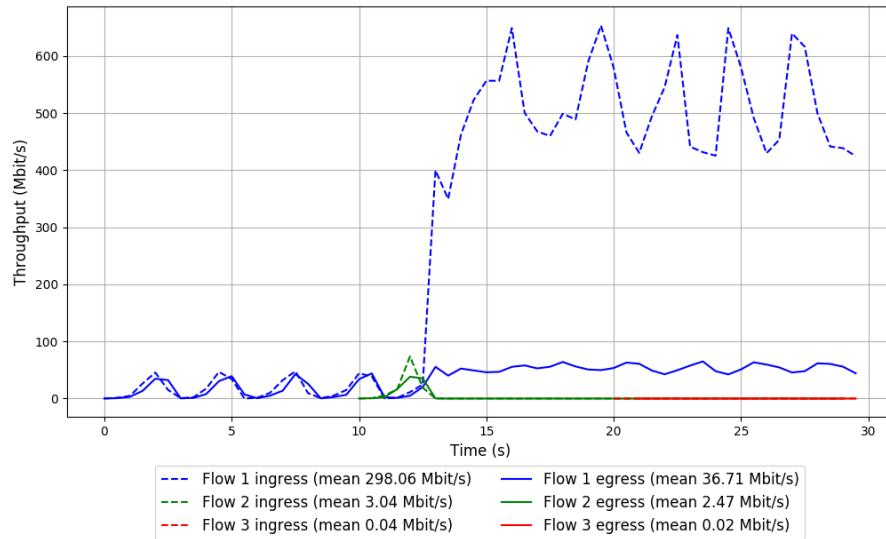


Run 10: Statistics of Verus

```
Start at: 2018-04-17 20:27:05
End at: 2018-04-17 20:27:35
Local clock offset: 4.957 ms
Remote clock offset: -1.201 ms

# Below is generated by plot.py at 2018-04-17 21:14:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 199.882 ms
Loss rate: 87.22%
-- Flow 1:
Average throughput: 36.71 Mbit/s
95th percentile per-packet one-way delay: 200.241 ms
Loss rate: 87.67%
-- Flow 2:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 172.224 ms
Loss rate: 19.66%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 172.779 ms
Loss rate: 64.52%
```

Run 10: Report of Verus — Data Link

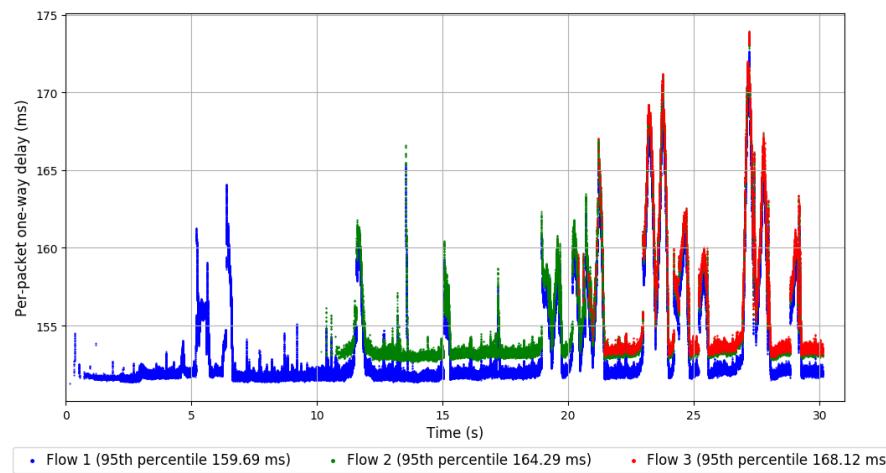
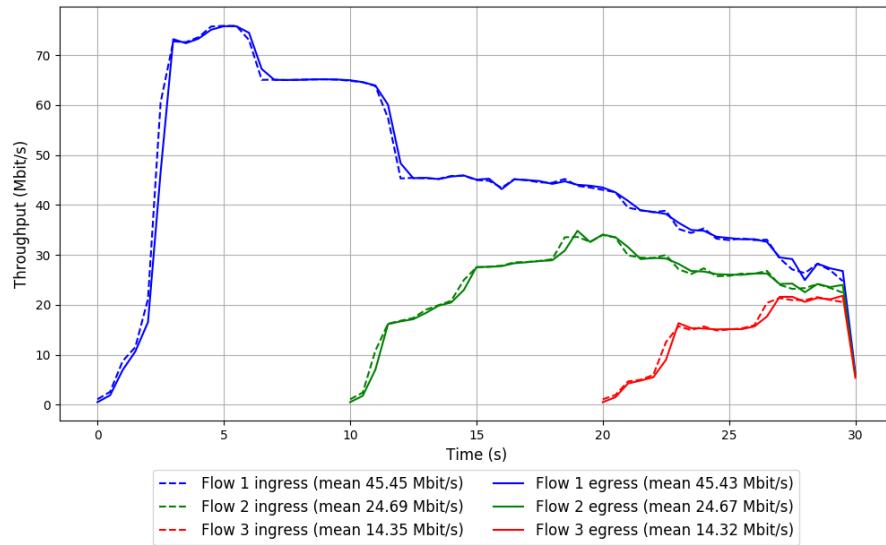


Run 1: Statistics of Copa

```
Start at: 2018-04-17 17:10:21
End at: 2018-04-17 17:10:51
Local clock offset: 5.642 ms
Remote clock offset: -12.244 ms

# Below is generated by plot.py at 2018-04-17 21:15:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.61 Mbit/s
95th percentile per-packet one-way delay: 161.845 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 45.43 Mbit/s
95th percentile per-packet one-way delay: 159.694 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 164.292 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 168.124 ms
Loss rate: 0.24%
```

Run 1: Report of Copa — Data Link

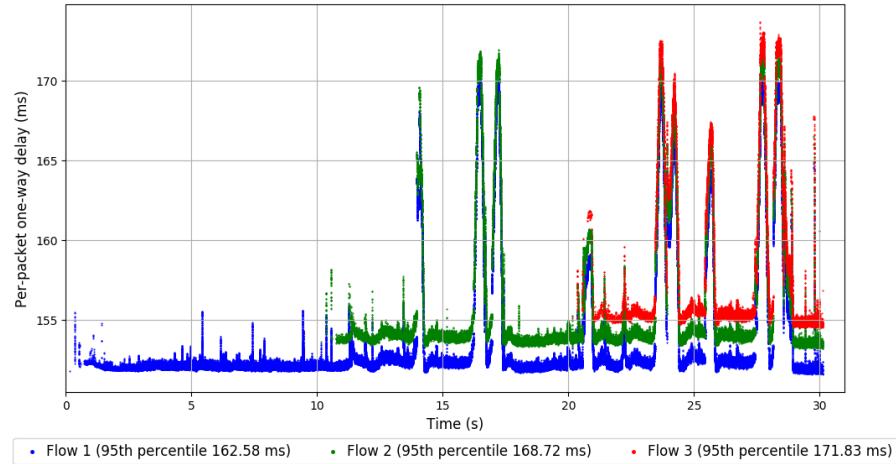
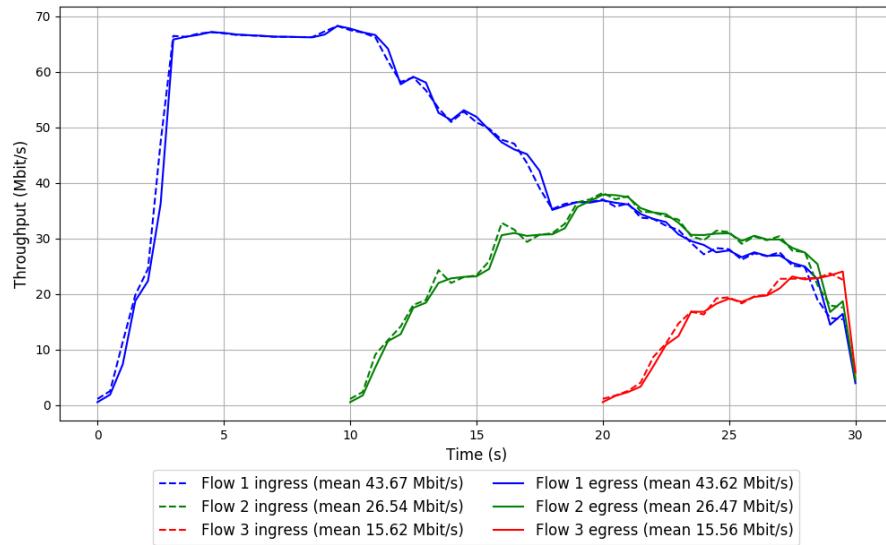


Run 2: Statistics of Copa

```
Start at: 2018-04-17 17:33:20
End at: 2018-04-17 17:33:50
Local clock offset: 6.913 ms
Remote clock offset: 3.572 ms

# Below is generated by plot.py at 2018-04-17 21:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.41 Mbit/s
95th percentile per-packet one-way delay: 166.178 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 43.62 Mbit/s
95th percentile per-packet one-way delay: 162.578 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 168.715 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 171.829 ms
Loss rate: 0.33%
```

Run 2: Report of Copa — Data Link

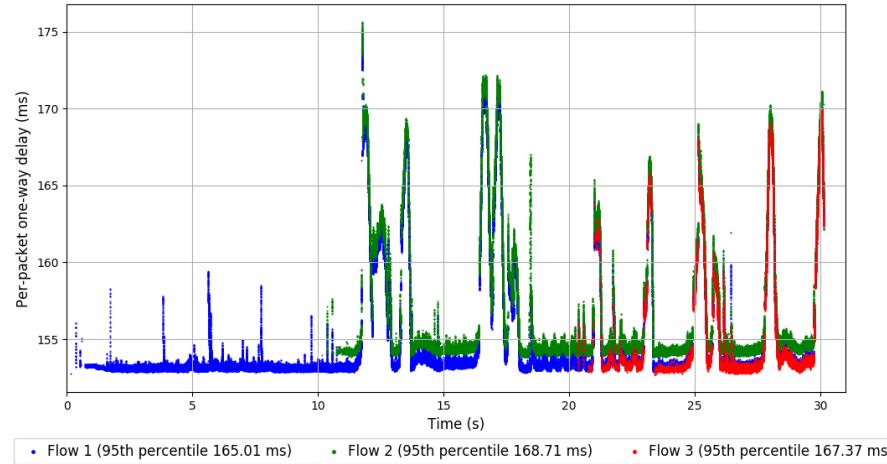
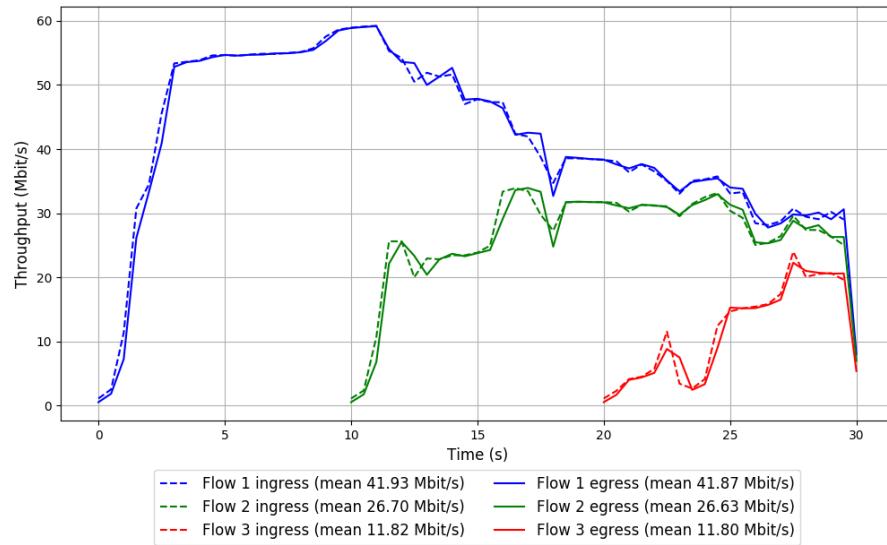


Run 3: Statistics of Copa

```
Start at: 2018-04-17 17:56:16
End at: 2018-04-17 17:56:46
Local clock offset: 7.802 ms
Remote clock offset: 3.245 ms

# Below is generated by plot.py at 2018-04-17 21:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.53 Mbit/s
95th percentile per-packet one-way delay: 166.615 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 41.87 Mbit/s
95th percentile per-packet one-way delay: 165.010 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 26.63 Mbit/s
95th percentile per-packet one-way delay: 168.708 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 167.368 ms
Loss rate: 0.04%
```

Run 3: Report of Copa — Data Link

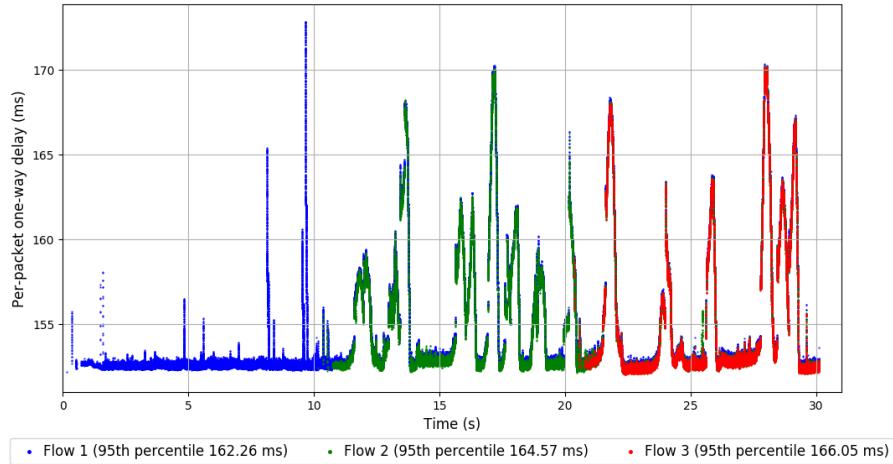
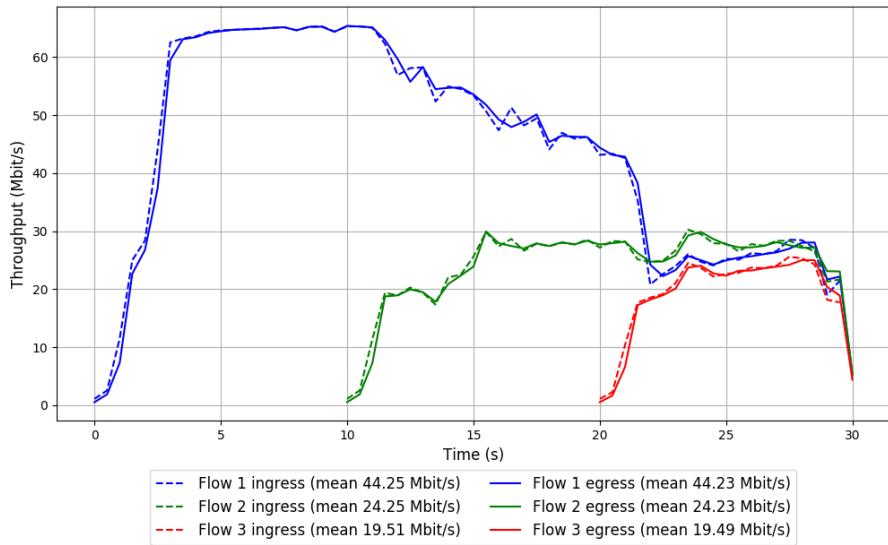


Run 4: Statistics of Copa

```
Start at: 2018-04-17 18:18:56
End at: 2018-04-17 18:19:26
Local clock offset: 4.3 ms
Remote clock offset: 4.018 ms

# Below is generated by plot.py at 2018-04-17 21:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.84 Mbit/s
95th percentile per-packet one-way delay: 163.128 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 162.256 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 164.567 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 19.49 Mbit/s
95th percentile per-packet one-way delay: 166.049 ms
Loss rate: 0.17%
```

Run 4: Report of Copa — Data Link

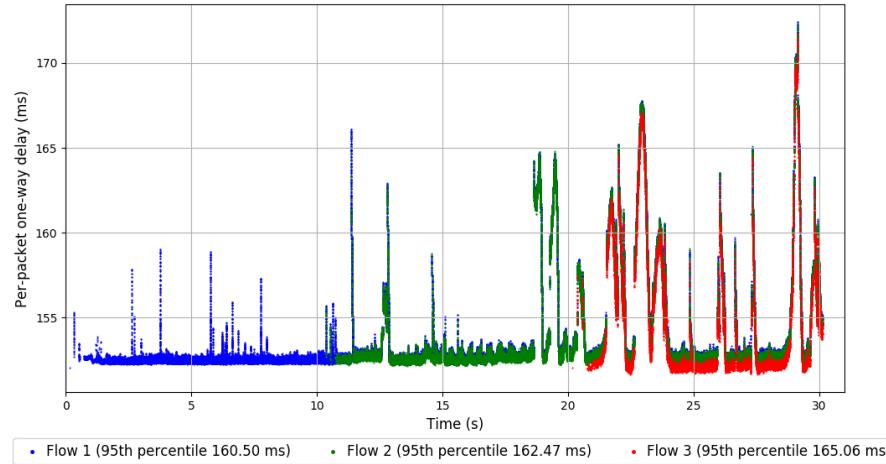
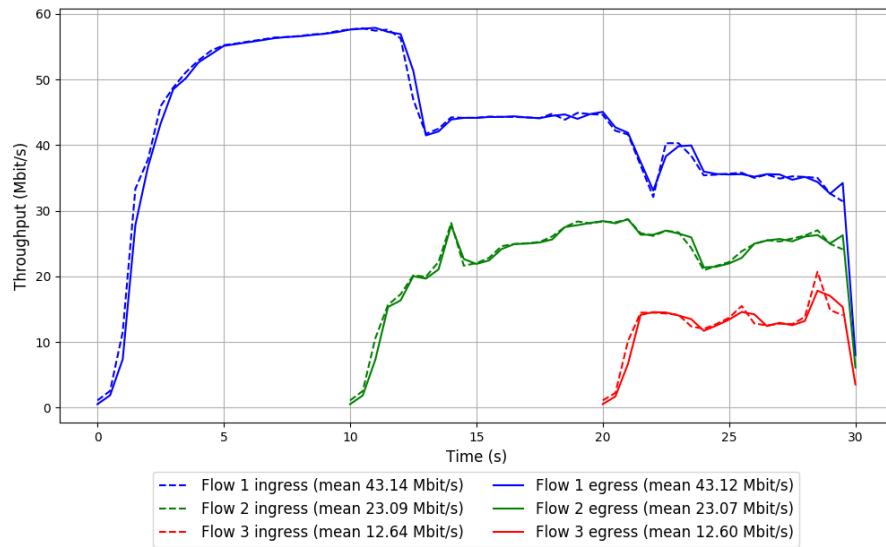


Run 5: Statistics of Copa

```
Start at: 2018-04-17 18:41:55
End at: 2018-04-17 18:42:25
Local clock offset: 5.593 ms
Remote clock offset: 1.595 ms

# Below is generated by plot.py at 2018-04-17 21:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.66 Mbit/s
95th percentile per-packet one-way delay: 161.566 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 160.495 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 162.475 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 165.058 ms
Loss rate: 0.29%
```

Run 5: Report of Copa — Data Link

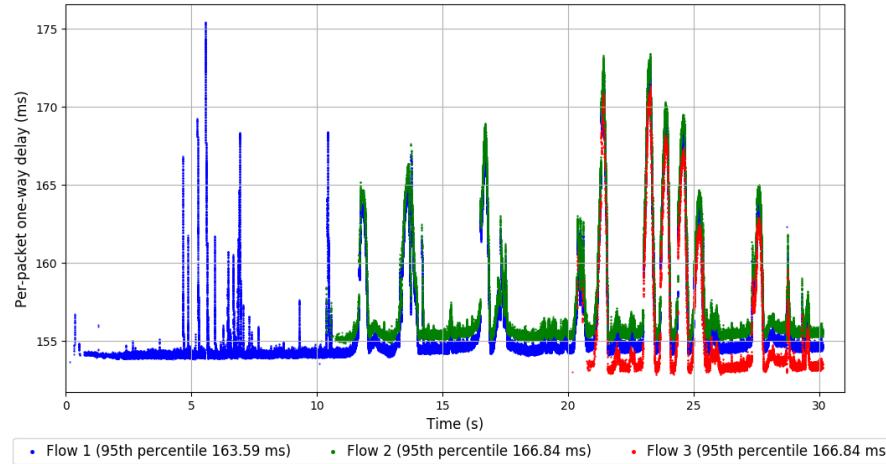
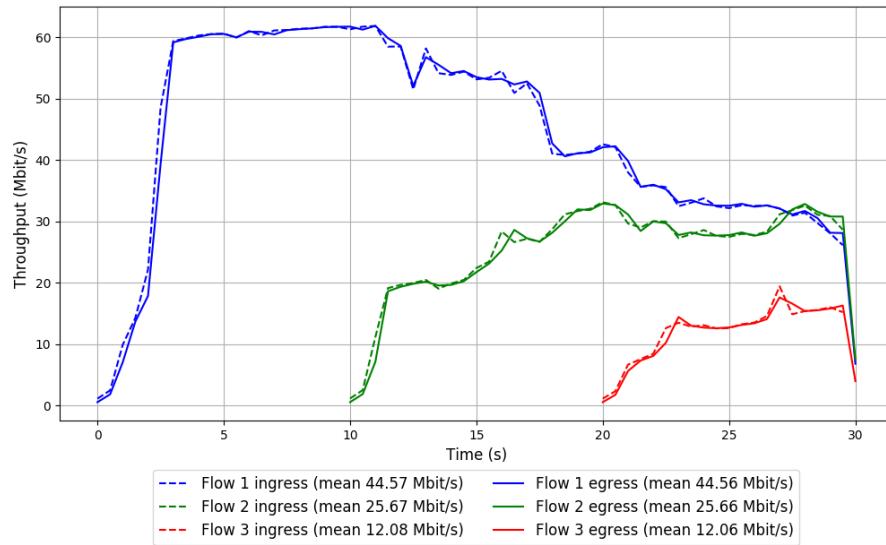


Run 6: Statistics of Copa

```
Start at: 2018-04-17 19:05:01
End at: 2018-04-17 19:05:31
Local clock offset: 6.583 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-04-17 21:16:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.66 Mbit/s
95th percentile per-packet one-way delay: 164.733 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 163.593 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 166.841 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 166.844 ms
Loss rate: 0.16%
```

Run 6: Report of Copa — Data Link

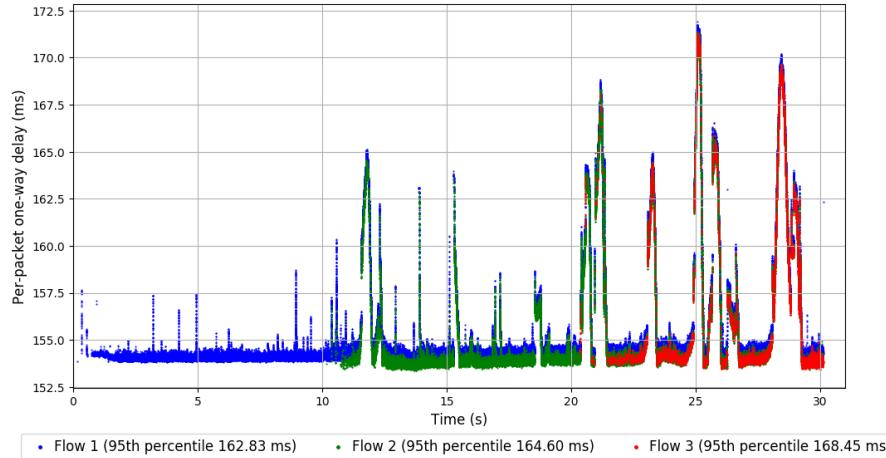
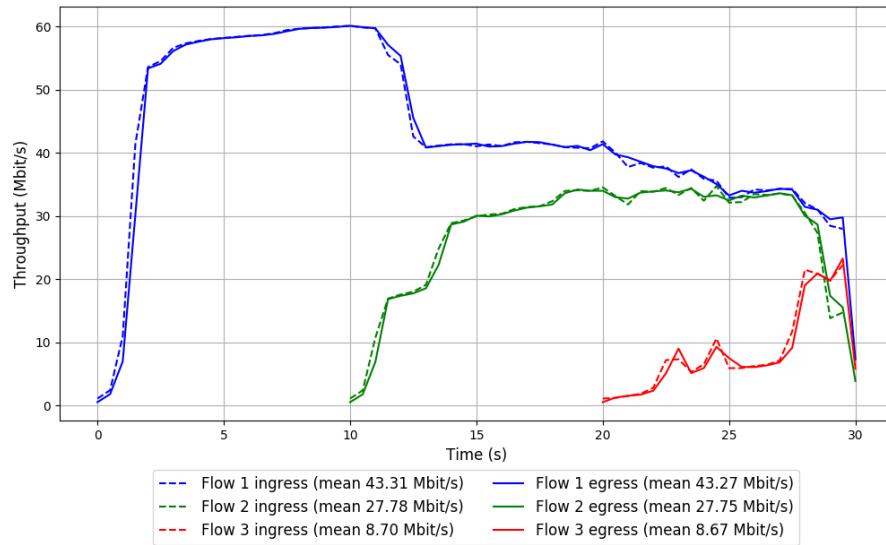


Run 7: Statistics of Copa

```
Start at: 2018-04-17 19:27:57
End at: 2018-04-17 19:28:27
Local clock offset: 11.396 ms
Remote clock offset: 1.09 ms

# Below is generated by plot.py at 2018-04-17 21:16:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.62 Mbit/s
95th percentile per-packet one-way delay: 163.800 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 43.27 Mbit/s
95th percentile per-packet one-way delay: 162.831 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 27.75 Mbit/s
95th percentile per-packet one-way delay: 164.605 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 168.446 ms
Loss rate: 0.36%
```

Run 7: Report of Copa — Data Link

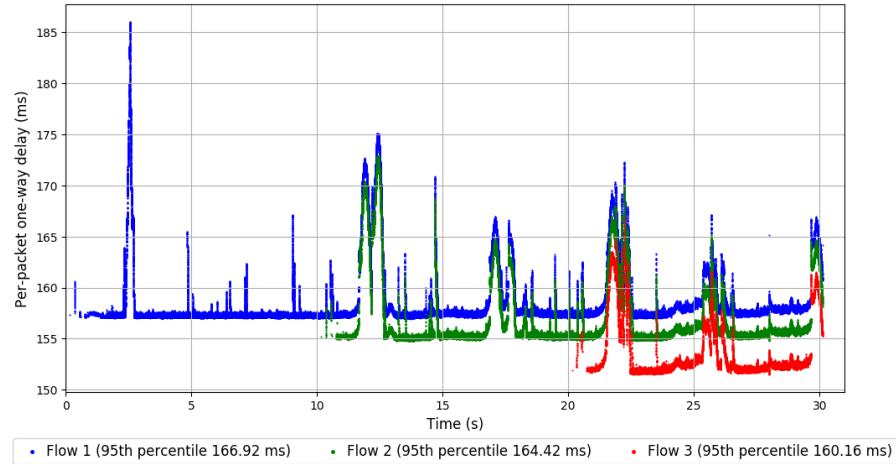
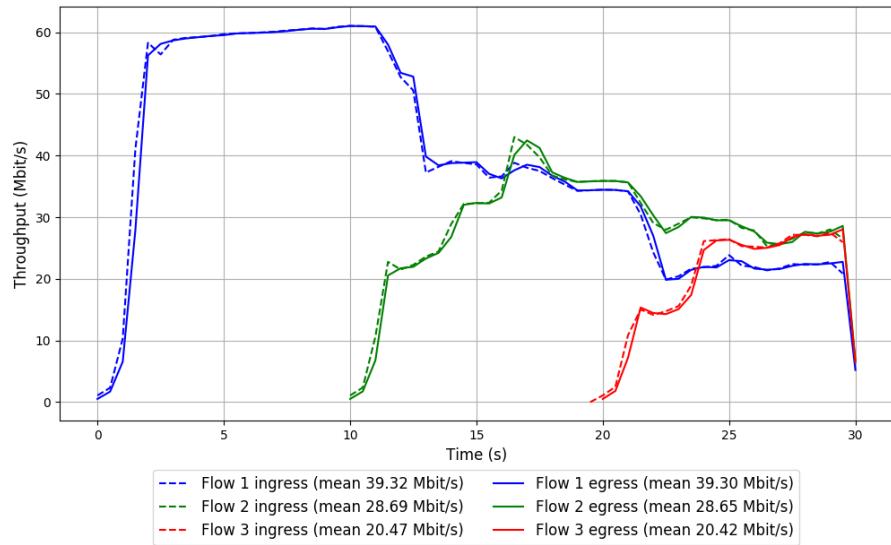


Run 8: Statistics of Copa

```
Start at: 2018-04-17 19:50:47
End at: 2018-04-17 19:51:17
Local clock offset: 4.919 ms
Remote clock offset: -1.186 ms

# Below is generated by plot.py at 2018-04-17 21:16:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 165.711 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 166.917 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 164.421 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 160.158 ms
Loss rate: 0.22%
```

Run 8: Report of Copa — Data Link

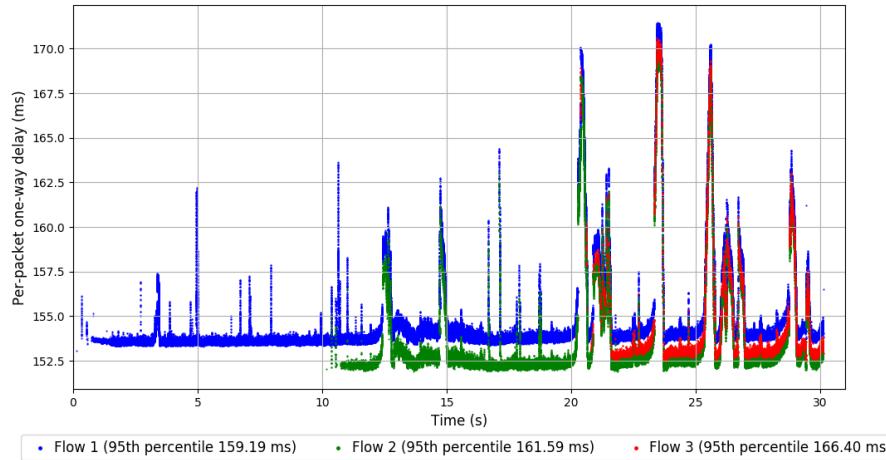
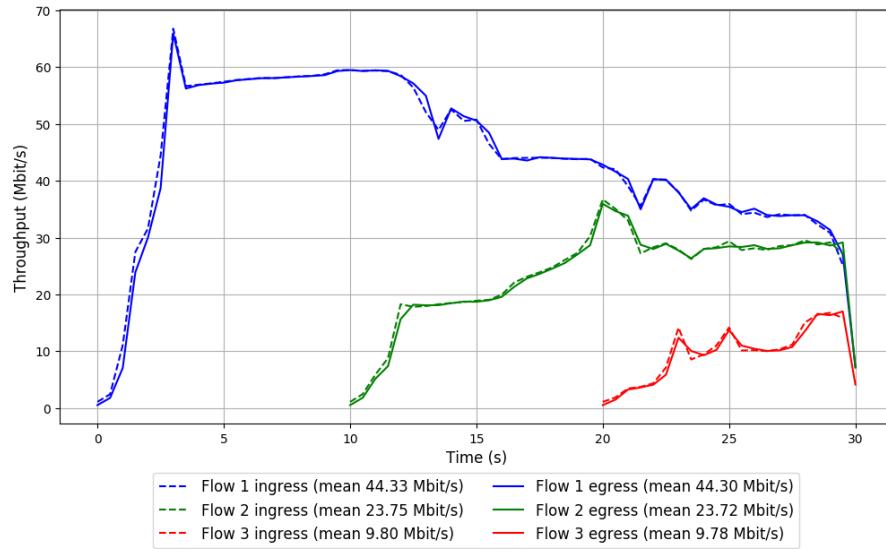


Run 9: Statistics of Copa

```
Start at: 2018-04-17 20:13:43
End at: 2018-04-17 20:14:13
Local clock offset: 2.653 ms
Remote clock offset: -1.282 ms

# Below is generated by plot.py at 2018-04-17 21:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.34 Mbit/s
95th percentile per-packet one-way delay: 159.943 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 159.194 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 161.591 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 166.398 ms
Loss rate: 0.17%
```

Run 9: Report of Copa — Data Link

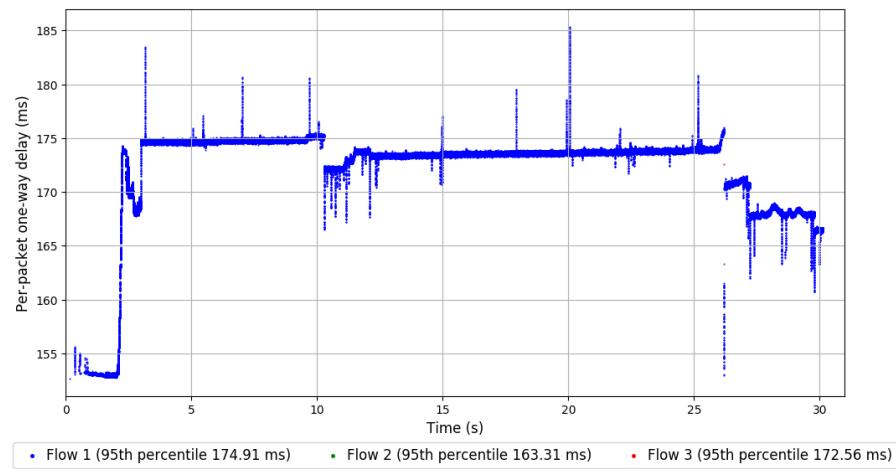
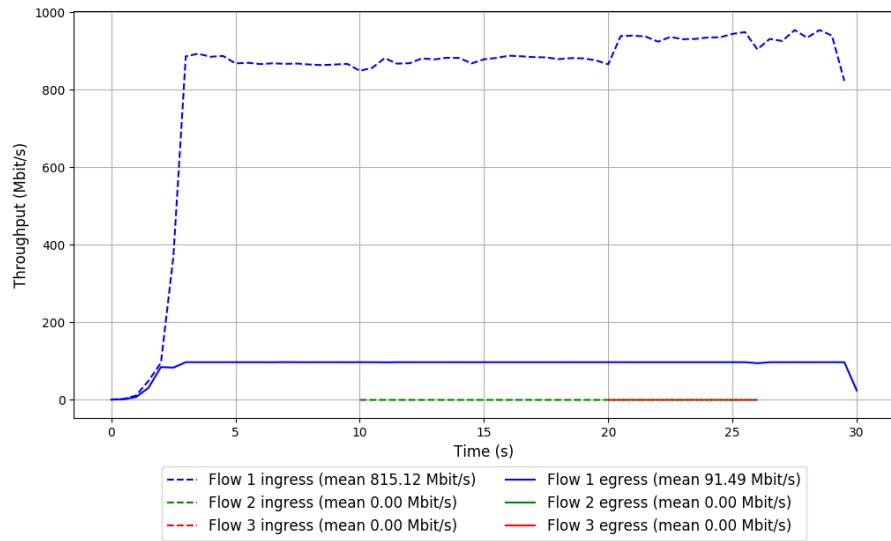


Run 10: Statistics of Copa

```
Start at: 2018-04-17 20:36:39
End at: 2018-04-17 20:37:09
Local clock offset: 5.154 ms
Remote clock offset: -1.42 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 174.907 ms
Loss rate: 88.77%
-- Flow 1:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 174.907 ms
Loss rate: 88.77%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 163.309 ms
Loss rate: 88.89%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 172.560 ms
Loss rate: 75.00%
```

Run 10: Report of Copa — Data Link

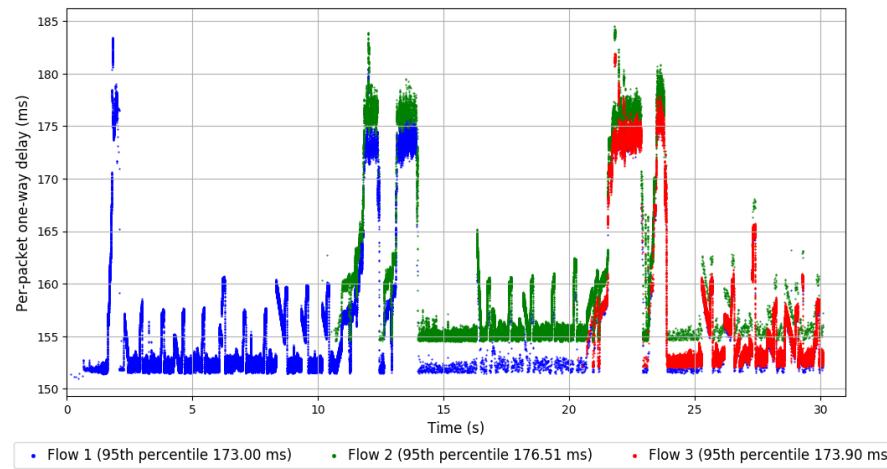
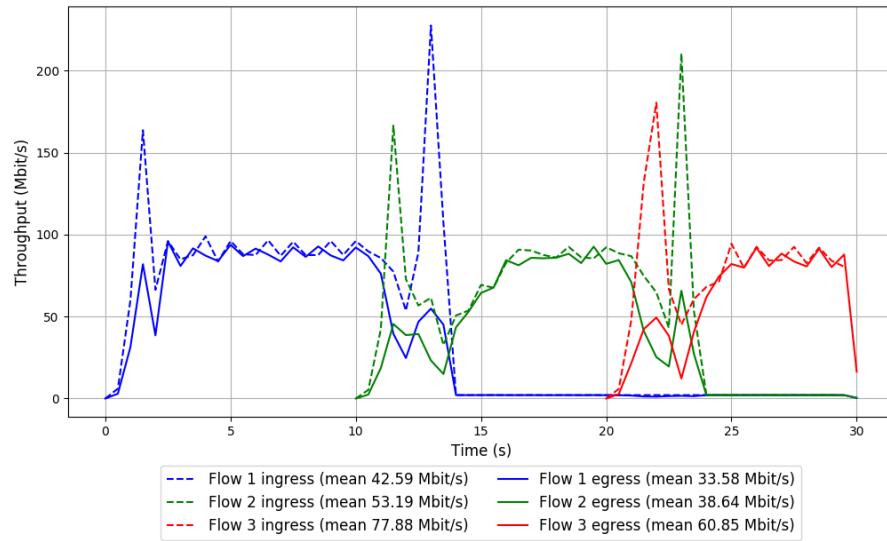


Run 1: Statistics of FillP

```
Start at: 2018-04-17 17:02:08
End at: 2018-04-17 17:02:38
Local clock offset: 5.993 ms
Remote clock offset: -2.752 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 174.515 ms
Loss rate: 23.47%
-- Flow 1:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 173.004 ms
Loss rate: 21.17%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 176.507 ms
Loss rate: 27.37%
-- Flow 3:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 173.897 ms
Loss rate: 21.91%
```

Run 1: Report of FillP — Data Link

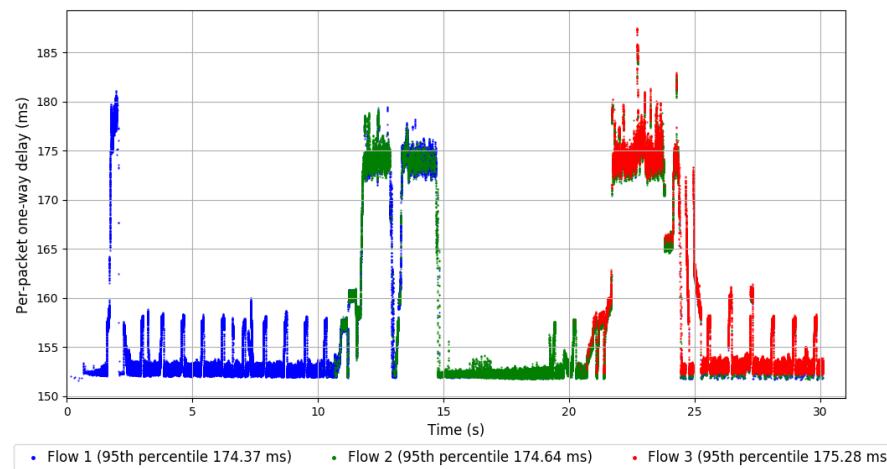
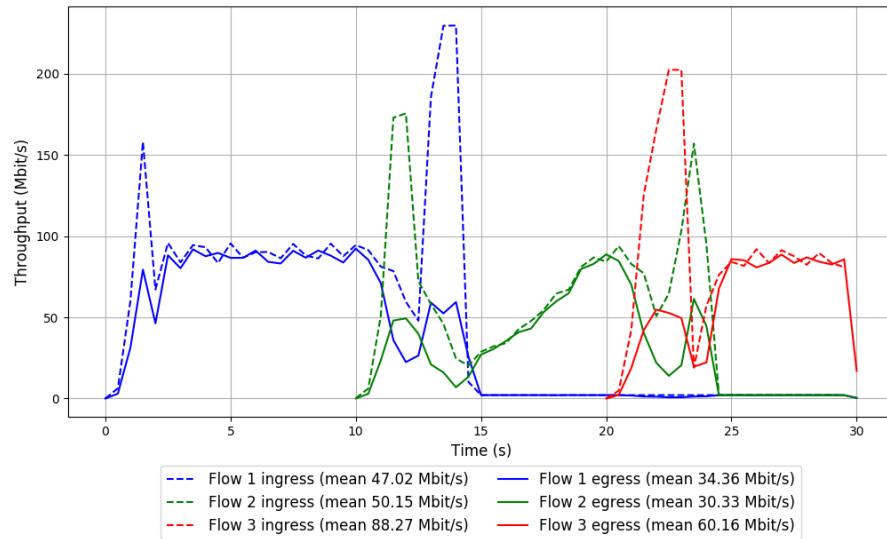


Run 2: Statistics of FillP

```
Start at: 2018-04-17 17:25:15
End at: 2018-04-17 17:25:45
Local clock offset: 6.395 ms
Remote clock offset: -3.191 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.47 Mbit/s
95th percentile per-packet one-way delay: 174.678 ms
Loss rate: 32.08%
-- Flow 1:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 174.366 ms
Loss rate: 26.93%
-- Flow 2:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 174.643 ms
Loss rate: 39.52%
-- Flow 3:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 175.280 ms
Loss rate: 31.88%
```

Run 2: Report of FillP — Data Link

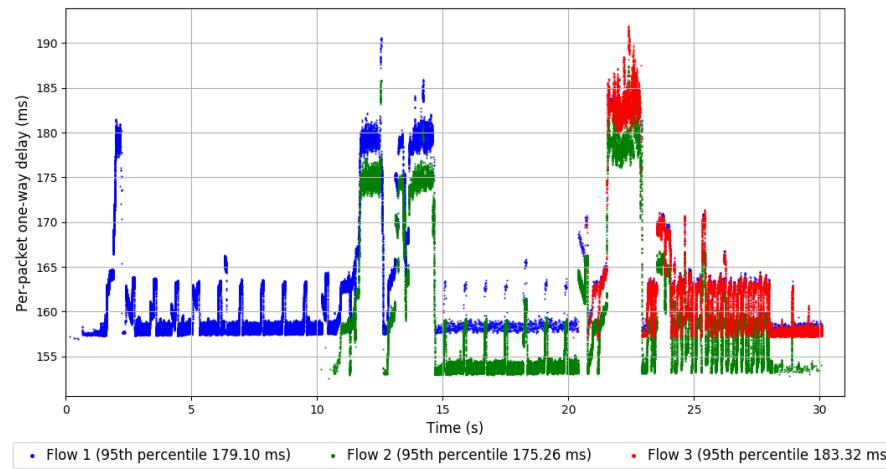
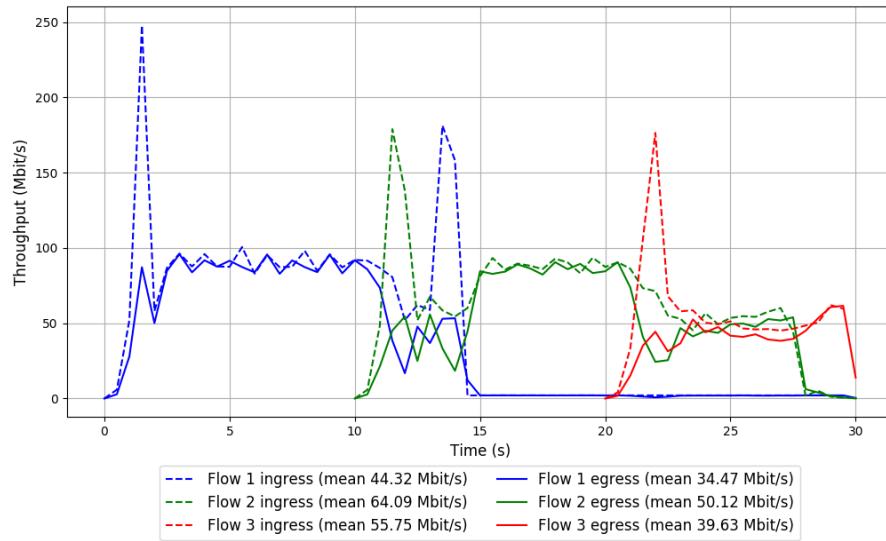


Run 3: Statistics of FillP

```
Start at: 2018-04-17 17:48:04
End at: 2018-04-17 17:48:34
Local clock offset: 7.931 ms
Remote clock offset: 8.287 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.89 Mbit/s
95th percentile per-packet one-way delay: 179.115 ms
Loss rate: 23.23%
-- Flow 1:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 179.098 ms
Loss rate: 22.24%
-- Flow 2:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 175.261 ms
Loss rate: 21.79%
-- Flow 3:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 183.321 ms
Loss rate: 28.92%
```

Run 3: Report of FillP — Data Link

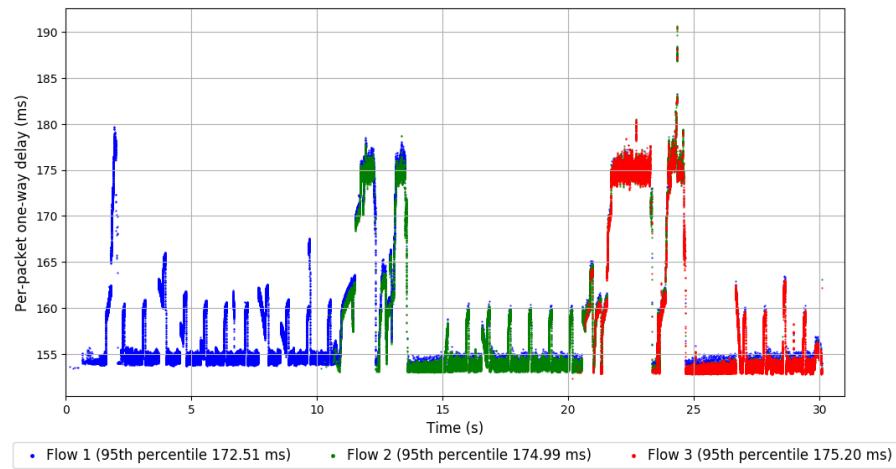
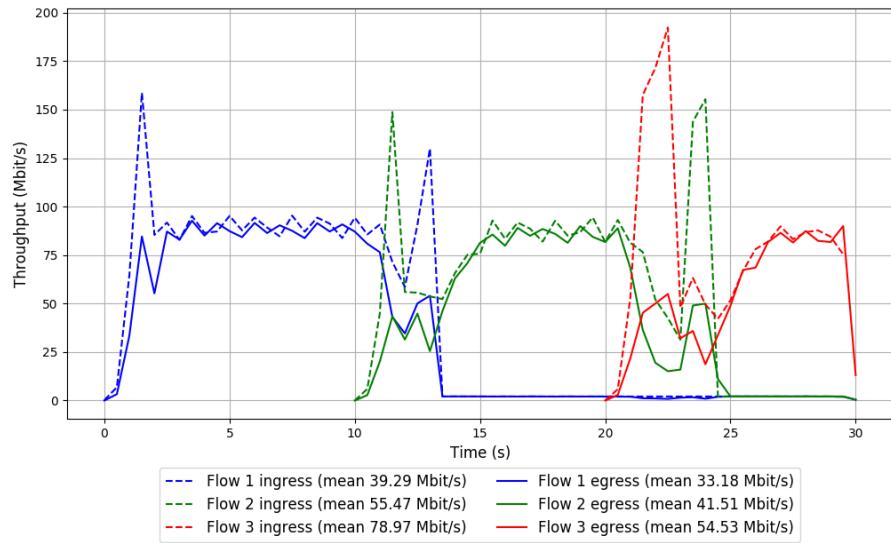


Run 4: Statistics of FillP

```
Start at: 2018-04-17 18:10:57
End at: 2018-04-17 18:11:27
Local clock offset: 5.001 ms
Remote clock offset: -6.868 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.92 Mbit/s
95th percentile per-packet one-way delay: 174.932 ms
Loss rate: 22.93%
-- Flow 1:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 172.514 ms
Loss rate: 15.54%
-- Flow 2:
Average throughput: 41.51 Mbit/s
95th percentile per-packet one-way delay: 174.987 ms
Loss rate: 25.14%
-- Flow 3:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 175.202 ms
Loss rate: 30.89%
```

Run 4: Report of FillP — Data Link

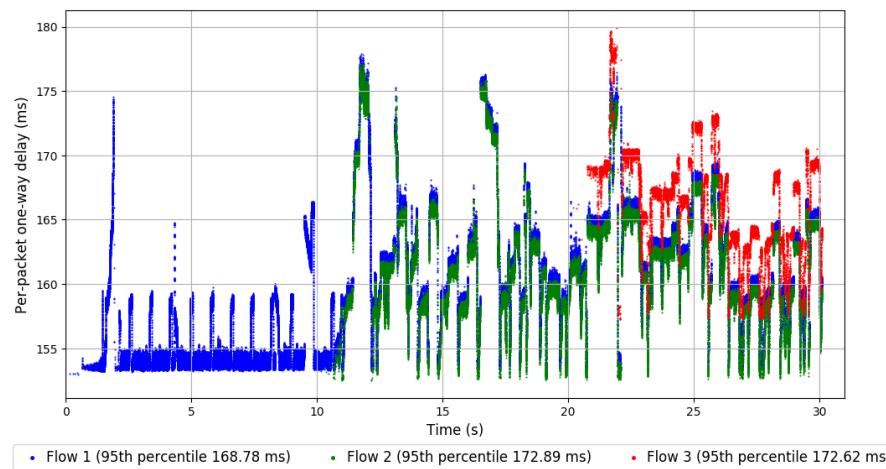
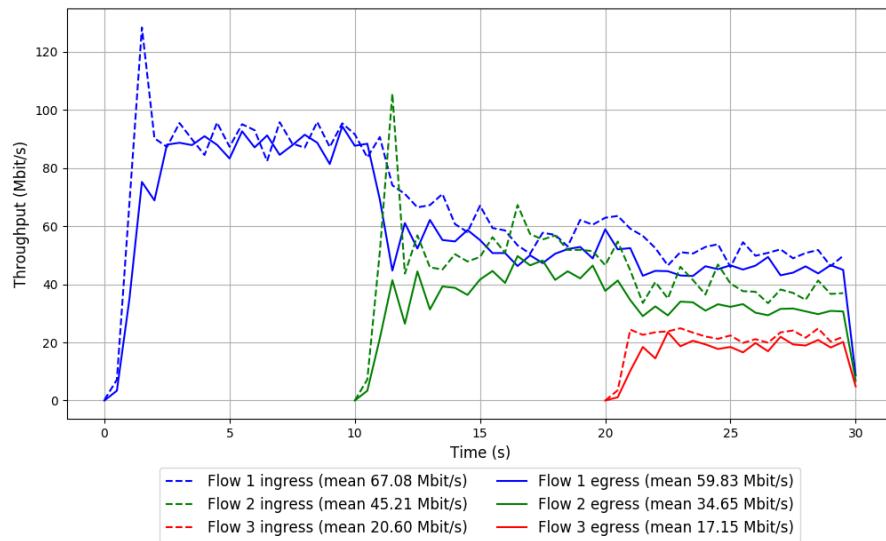


Run 5: Statistics of FillP

```
Start at: 2018-04-17 18:33:50
End at: 2018-04-17 18:34:20
Local clock offset: 4.742 ms
Remote clock offset: 1.798 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.57 Mbit/s
95th percentile per-packet one-way delay: 171.236 ms
Loss rate: 14.81%
-- Flow 1:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 168.779 ms
Loss rate: 10.79%
-- Flow 2:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 172.894 ms
Loss rate: 23.33%
-- Flow 3:
Average throughput: 17.15 Mbit/s
95th percentile per-packet one-way delay: 172.616 ms
Loss rate: 16.77%
```

Run 5: Report of FillP — Data Link

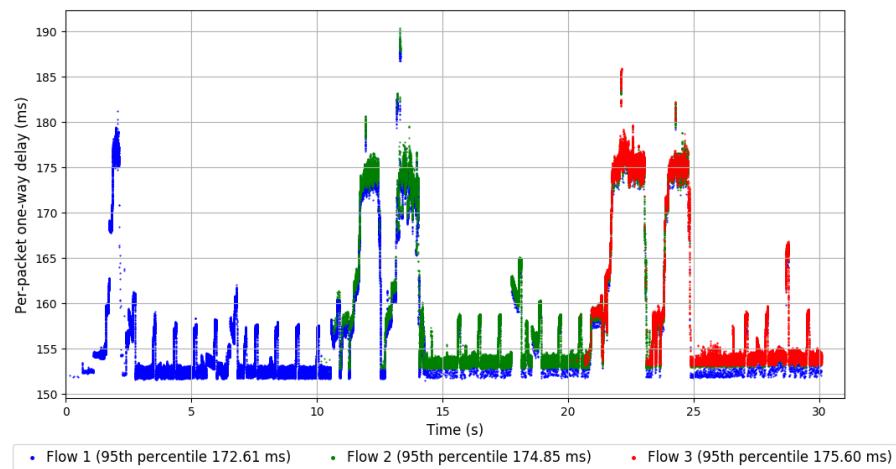
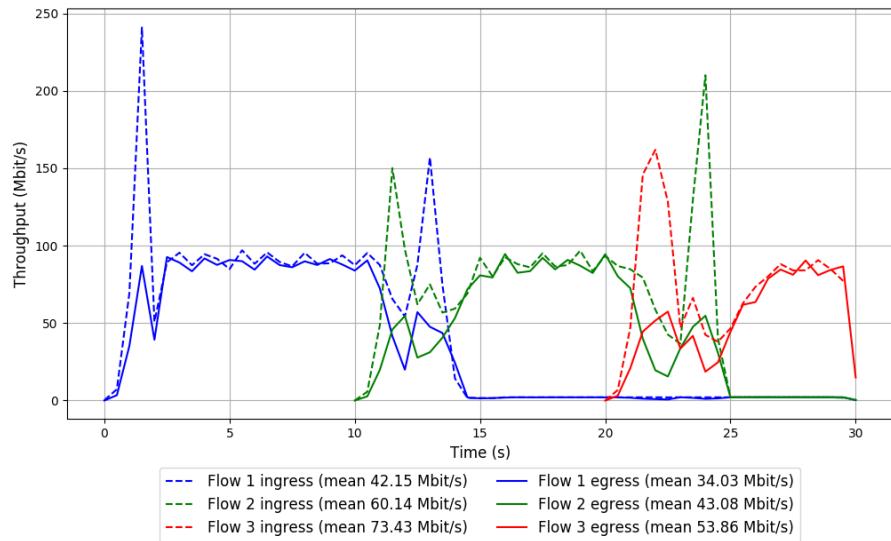


Run 6: Statistics of FillP

```
Start at: 2018-04-17 18:56:47
End at: 2018-04-17 18:57:17
Local clock offset: 6.212 ms
Remote clock offset: 1.387 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.55 Mbit/s
95th percentile per-packet one-way delay: 174.803 ms
Loss rate: 24.37%
-- Flow 1:
Average throughput: 34.03 Mbit/s
95th percentile per-packet one-way delay: 172.613 ms
Loss rate: 19.24%
-- Flow 2:
Average throughput: 43.08 Mbit/s
95th percentile per-packet one-way delay: 174.851 ms
Loss rate: 28.38%
-- Flow 3:
Average throughput: 53.86 Mbit/s
95th percentile per-packet one-way delay: 175.602 ms
Loss rate: 26.65%
```

Run 6: Report of FillP — Data Link

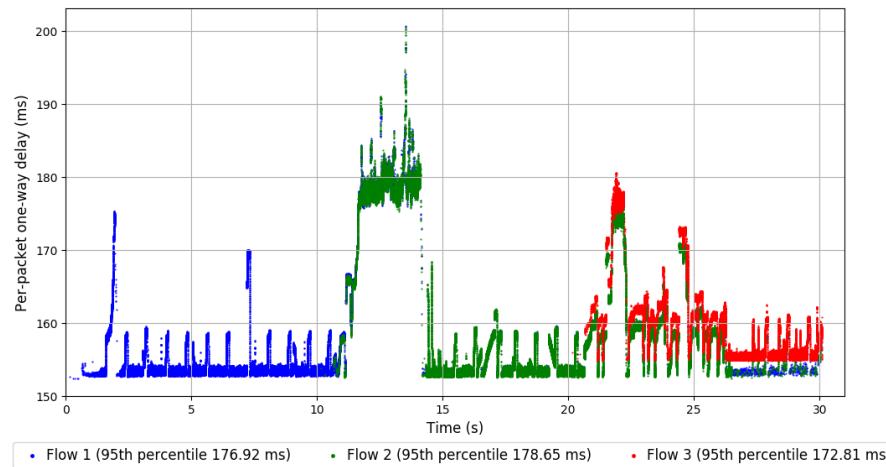
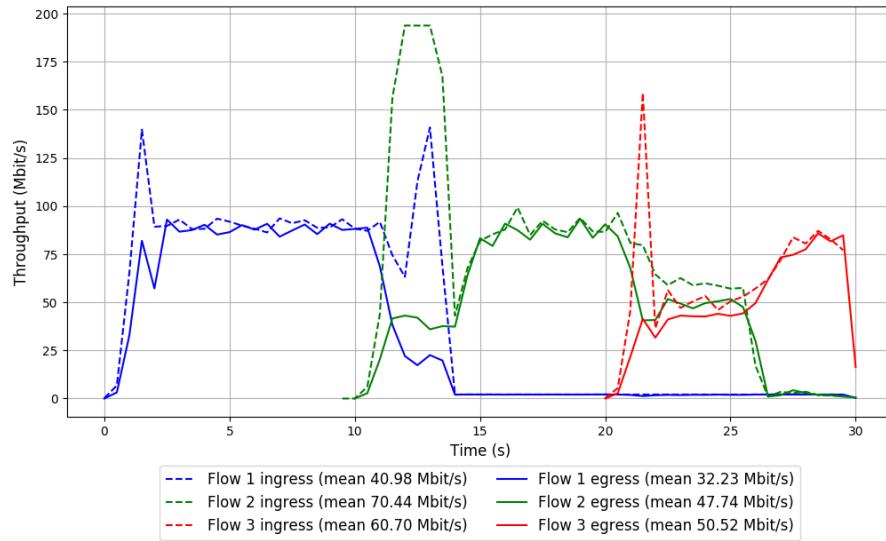


Run 7: Statistics of FillP

```
Start at: 2018-04-17 19:19:45
End at: 2018-04-17 19:20:15
Local clock offset: 10.289 ms
Remote clock offset: -0.849 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.74 Mbit/s
95th percentile per-packet one-way delay: 177.536 ms
Loss rate: 25.21%
-- Flow 1:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 176.919 ms
Loss rate: 21.35%
-- Flow 2:
Average throughput: 47.74 Mbit/s
95th percentile per-packet one-way delay: 178.651 ms
Loss rate: 32.22%
-- Flow 3:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 172.813 ms
Loss rate: 16.74%
```

Run 7: Report of FillP — Data Link

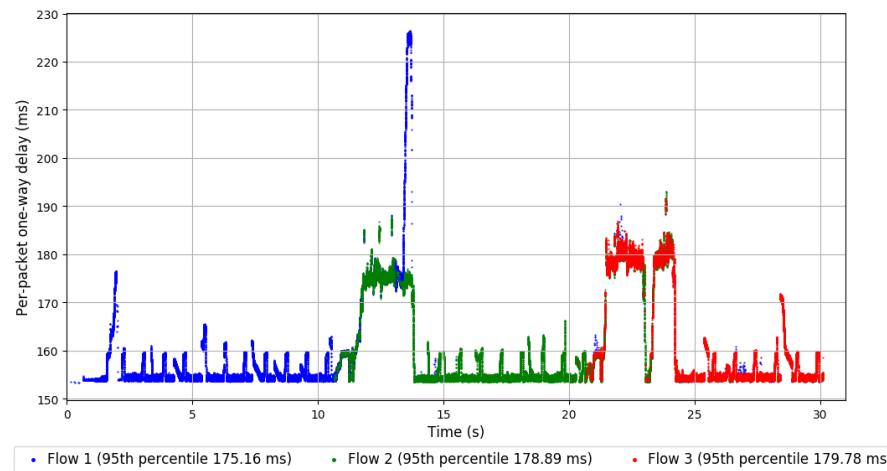
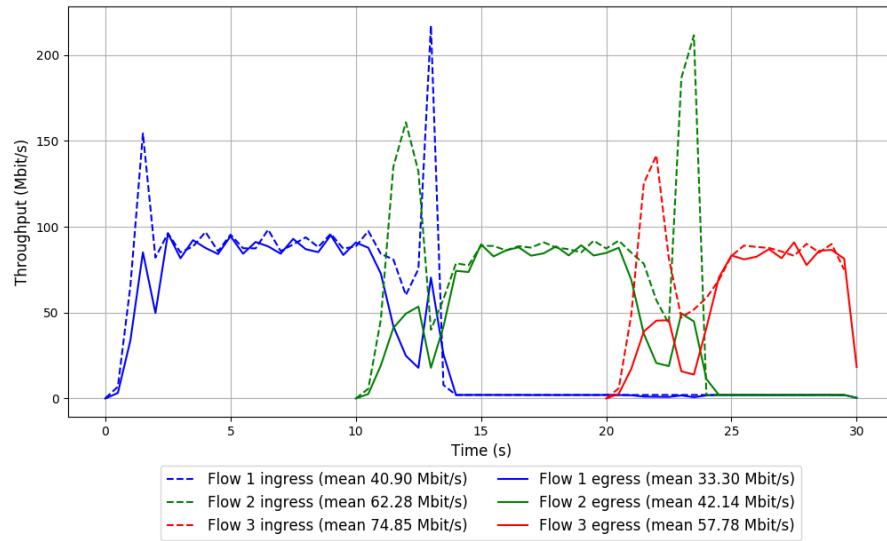


Run 8: Statistics of FillP

```
Start at: 2018-04-17 19:42:42
End at: 2018-04-17 19:43:12
Local clock offset: 8.236 ms
Remote clock offset: -0.5 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.50 Mbit/s
95th percentile per-packet one-way delay: 178.568 ms
Loss rate: 24.87%
-- Flow 1:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 175.164 ms
Loss rate: 18.58%
-- Flow 2:
Average throughput: 42.14 Mbit/s
95th percentile per-packet one-way delay: 178.889 ms
Loss rate: 32.33%
-- Flow 3:
Average throughput: 57.78 Mbit/s
95th percentile per-packet one-way delay: 179.782 ms
Loss rate: 22.78%
```

Run 8: Report of FillP — Data Link

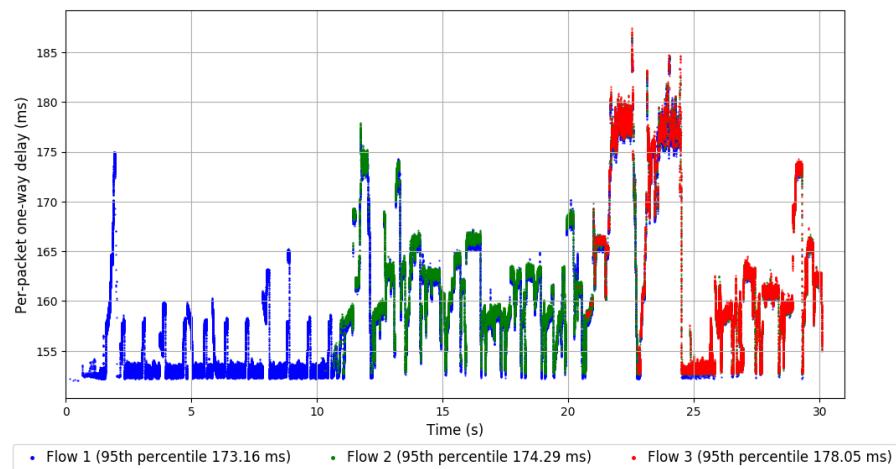
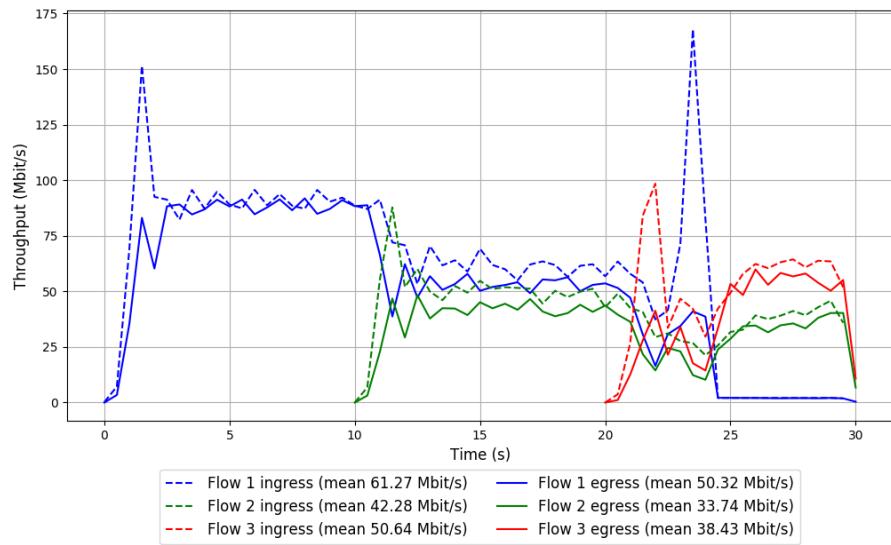


Run 9: Statistics of FillP

```
Start at: 2018-04-17 20:05:38
End at: 2018-04-17 20:06:08
Local clock offset: 2.739 ms
Remote clock offset: -1.661 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 175.661 ms
Loss rate: 19.49%
-- Flow 1:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 173.160 ms
Loss rate: 17.87%
-- Flow 2:
Average throughput: 33.74 Mbit/s
95th percentile per-packet one-way delay: 174.295 ms
Loss rate: 20.21%
-- Flow 3:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 178.052 ms
Loss rate: 24.20%
```

Run 9: Report of FillP — Data Link

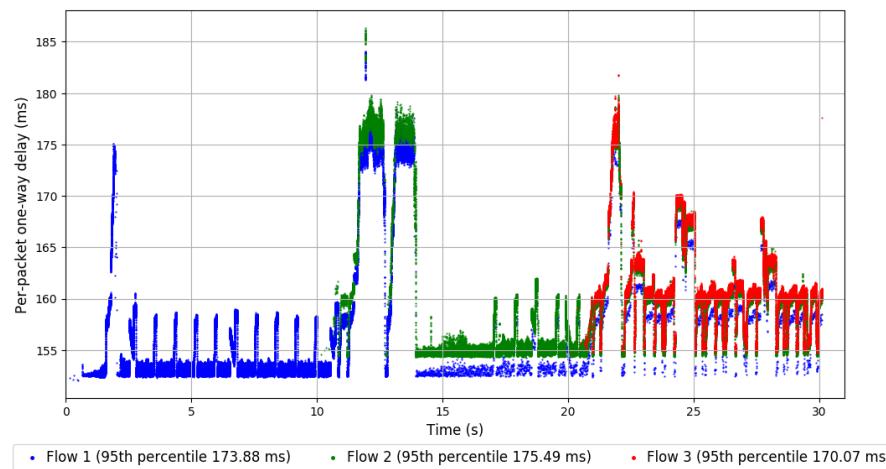
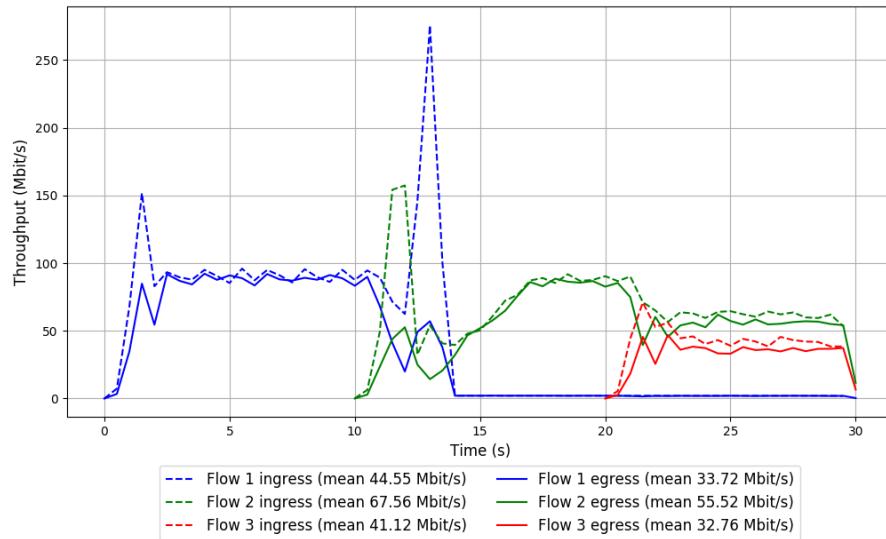


Run 10: Statistics of FillP

```
Start at: 2018-04-17 20:28:35
End at: 2018-04-17 20:29:05
Local clock offset: 5.066 ms
Remote clock offset: -1.27 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.52 Mbit/s
95th percentile per-packet one-way delay: 174.145 ms
Loss rate: 20.92%
-- Flow 1:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 173.884 ms
Loss rate: 24.29%
-- Flow 2:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 175.487 ms
Loss rate: 17.80%
-- Flow 3:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 170.070 ms
Loss rate: 20.18%
```

Run 10: Report of FillP — Data Link

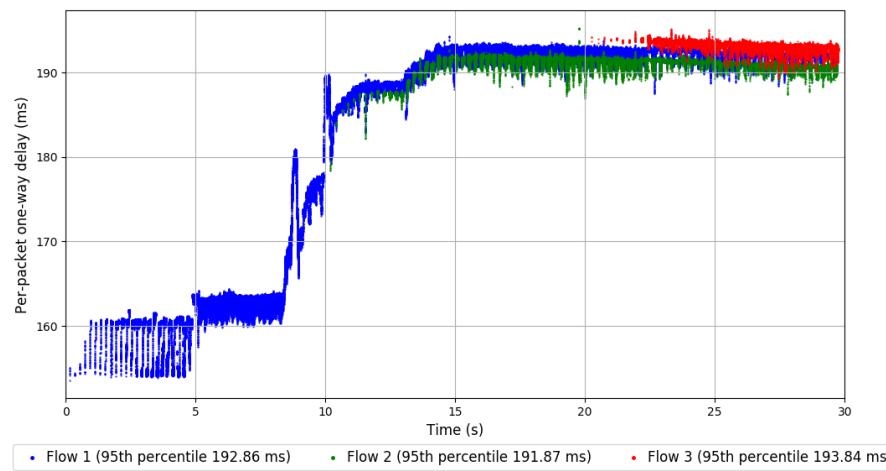
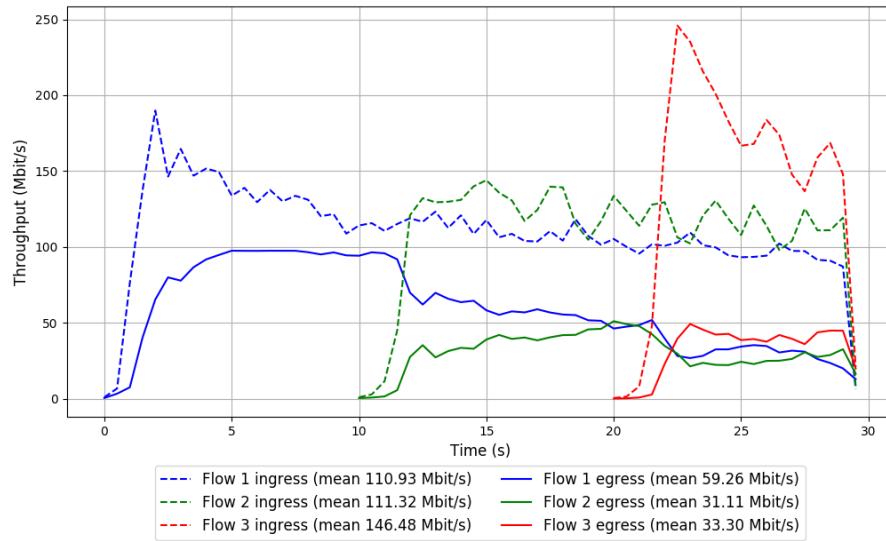


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-17 17:11:45
End at: 2018-04-17 17:12:15
Local clock offset: 5.53 ms
Remote clock offset: -12.368 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 193.384 ms
Loss rate: 60.87%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 192.857 ms
Loss rate: 46.51%
-- Flow 2:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 191.867 ms
Loss rate: 72.04%
-- Flow 3:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 193.840 ms
Loss rate: 77.27%
```

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

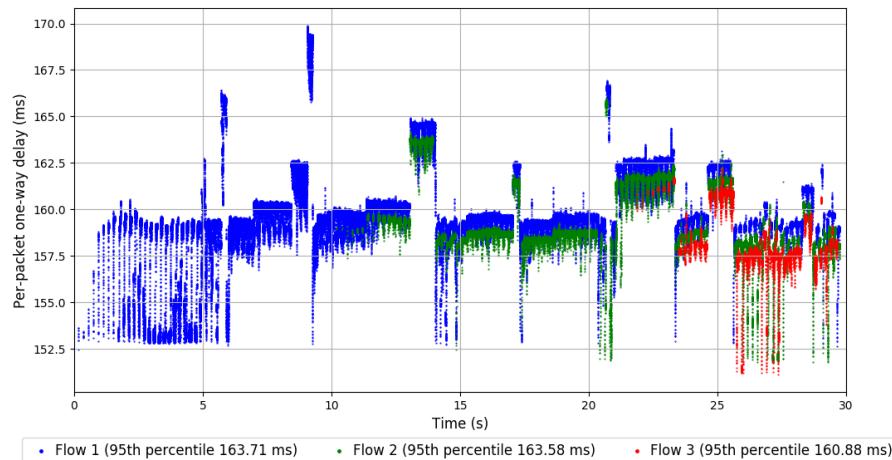
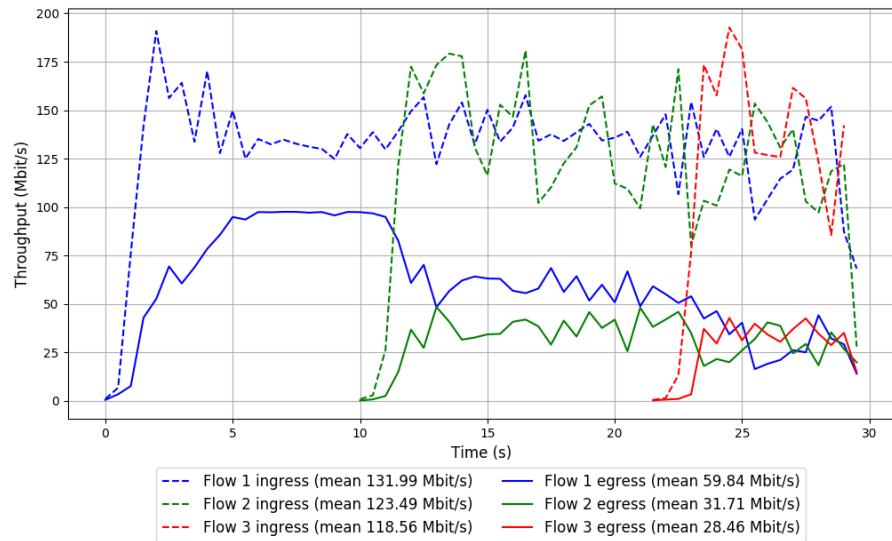


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-17 17:34:44
End at: 2018-04-17 17:35:14
Local clock offset: 7.278 ms
Remote clock offset: 4.461 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.24 Mbit/s
95th percentile per-packet one-way delay: 163.466 ms
Loss rate: 63.93%
-- Flow 1:
Average throughput: 59.84 Mbit/s
95th percentile per-packet one-way delay: 163.712 ms
Loss rate: 54.65%
-- Flow 2:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 163.579 ms
Loss rate: 74.33%
-- Flow 3:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 160.877 ms
Loss rate: 76.00%
```

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

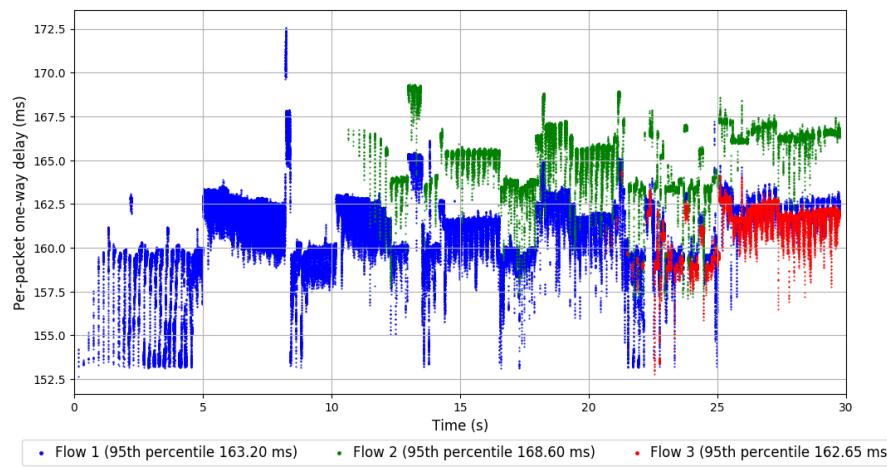
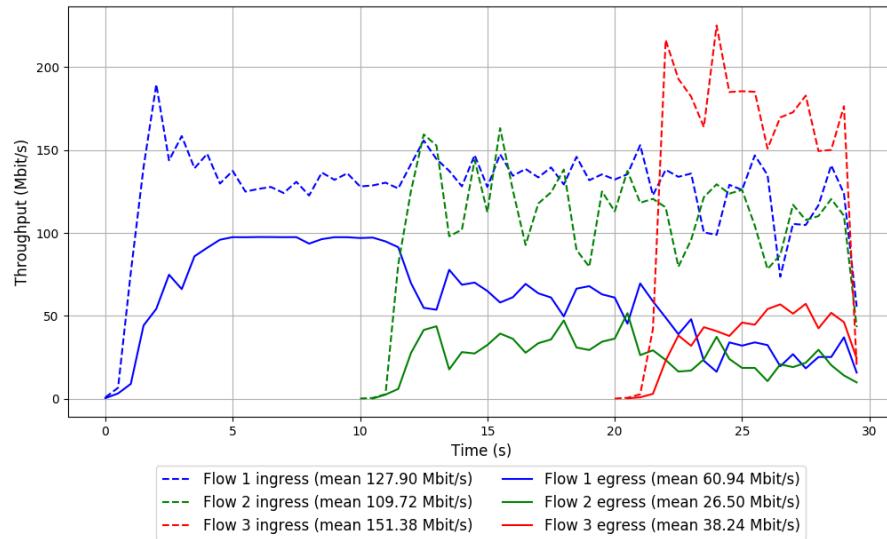


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-17 17:57:39
End at: 2018-04-17 17:58:09
Local clock offset: 7.337 ms
Remote clock offset: 2.746 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 166.392 ms
Loss rate: 63.38%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 163.201 ms
Loss rate: 52.33%
-- Flow 2:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 168.602 ms
Loss rate: 75.85%
-- Flow 3:
Average throughput: 38.24 Mbit/s
95th percentile per-packet one-way delay: 162.647 ms
Loss rate: 74.74%
```

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

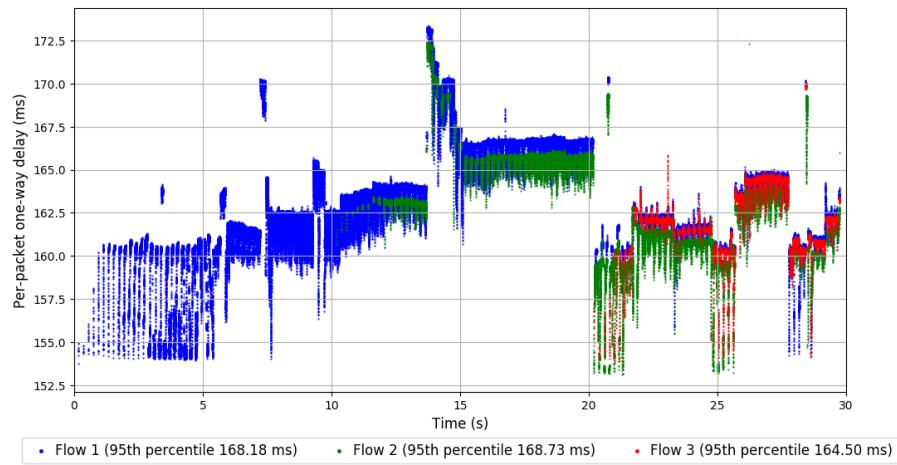
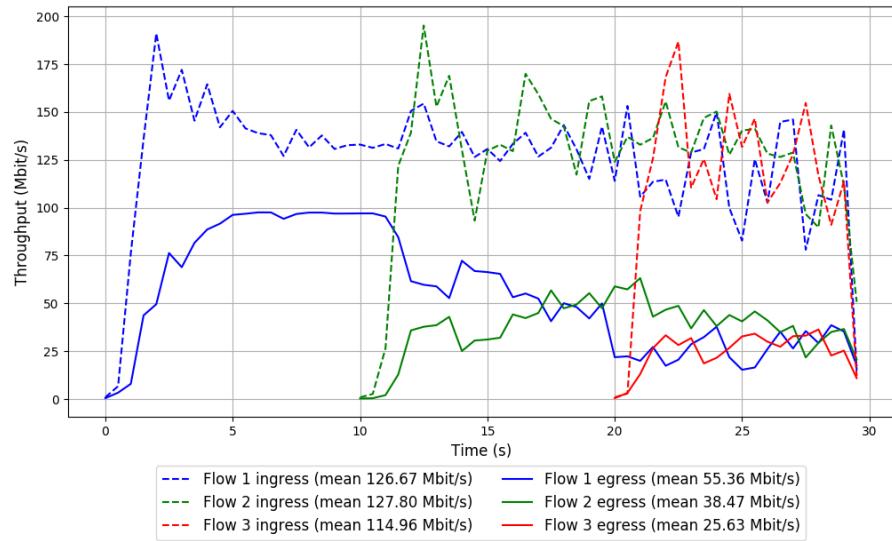


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-17 18:20:20
End at: 2018-04-17 18:20:50
Local clock offset: 4.144 ms
Remote clock offset: 4.148 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 167.411 ms
Loss rate: 64.11%
-- Flow 1:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 168.177 ms
Loss rate: 56.28%
-- Flow 2:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 168.731 ms
Loss rate: 69.90%
-- Flow 3:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 164.499 ms
Loss rate: 77.68%
```

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

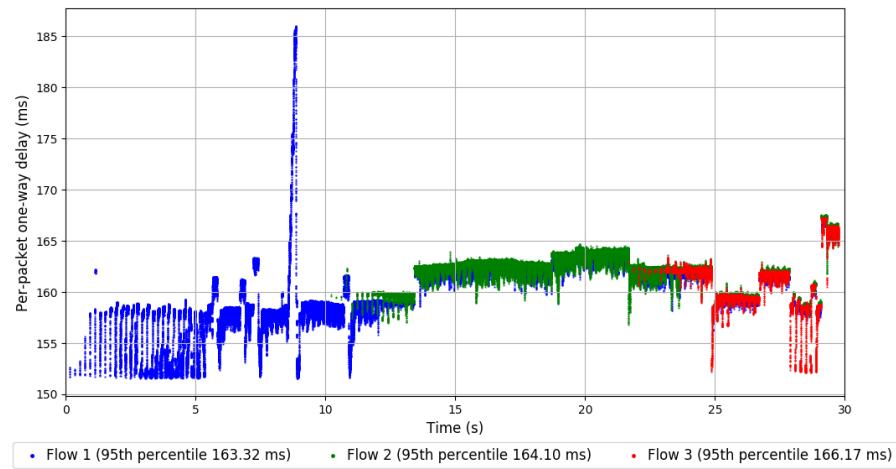
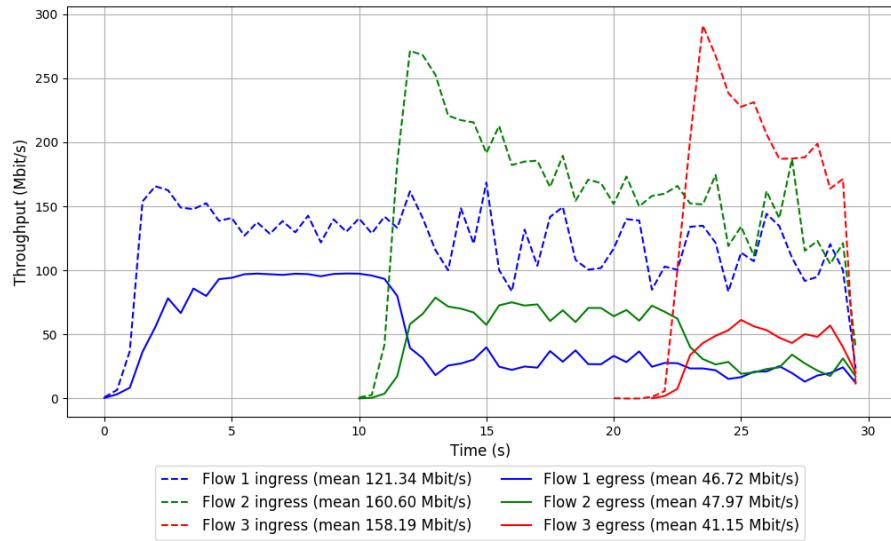


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-17 18:43:19
End at: 2018-04-17 18:43:49
Local clock offset: 5.788 ms
Remote clock offset: 1.572 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 164.037 ms
Loss rate: 67.51%
-- Flow 1:
Average throughput: 46.72 Mbit/s
95th percentile per-packet one-way delay: 163.324 ms
Loss rate: 61.48%
-- Flow 2:
Average throughput: 47.97 Mbit/s
95th percentile per-packet one-way delay: 164.104 ms
Loss rate: 70.12%
-- Flow 3:
Average throughput: 41.15 Mbit/s
95th percentile per-packet one-way delay: 166.174 ms
Loss rate: 76.84%
```

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

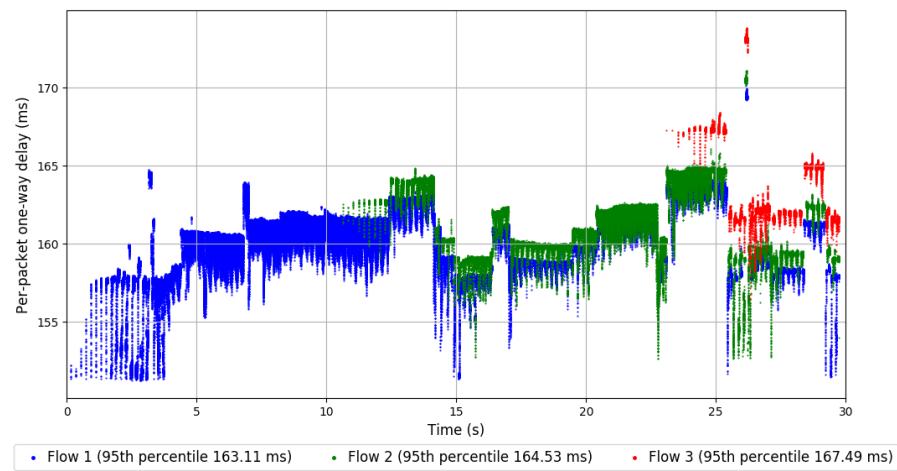
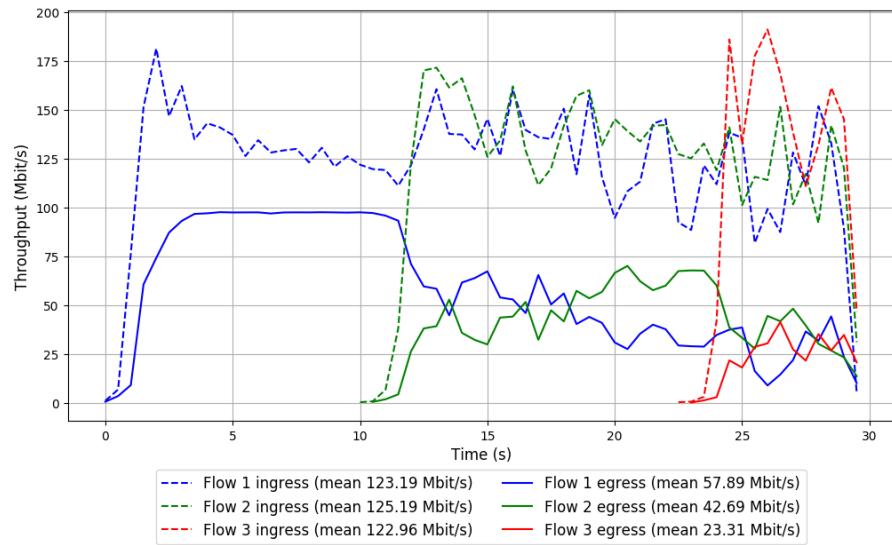


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-17 19:06:25
End at: 2018-04-17 19:06:55
Local clock offset: 7.265 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 164.229 ms
Loss rate: 60.86%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 163.106 ms
Loss rate: 53.00%
-- Flow 2:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 164.533 ms
Loss rate: 65.91%
-- Flow 3:
Average throughput: 23.31 Mbit/s
95th percentile per-packet one-way delay: 167.493 ms
Loss rate: 81.06%
```

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

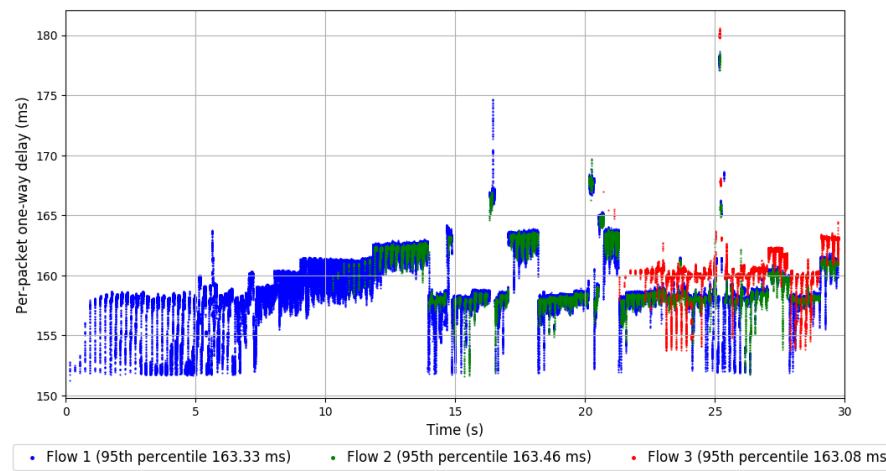
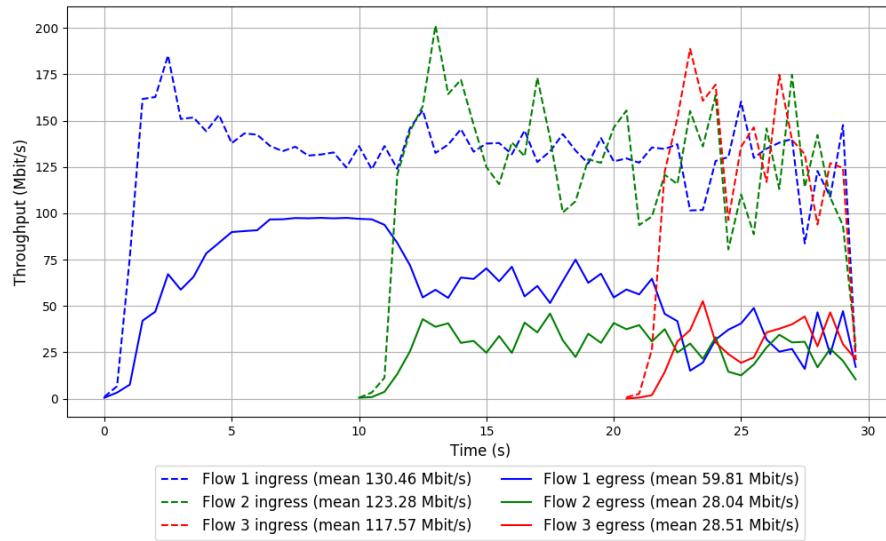


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-17 19:29:20
End at: 2018-04-17 19:29:50
Local clock offset: 11.495 ms
Remote clock offset: 0.875 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 163.349 ms
Loss rate: 64.85%
-- Flow 1:
Average throughput: 59.81 Mbit/s
95th percentile per-packet one-way delay: 163.332 ms
Loss rate: 54.14%
-- Flow 2:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 163.461 ms
Loss rate: 77.25%
-- Flow 3:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 163.079 ms
Loss rate: 75.76%
```

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

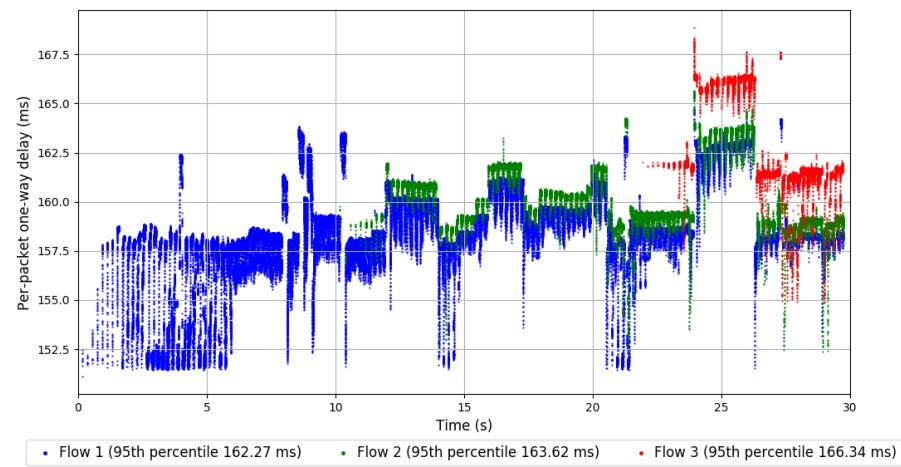
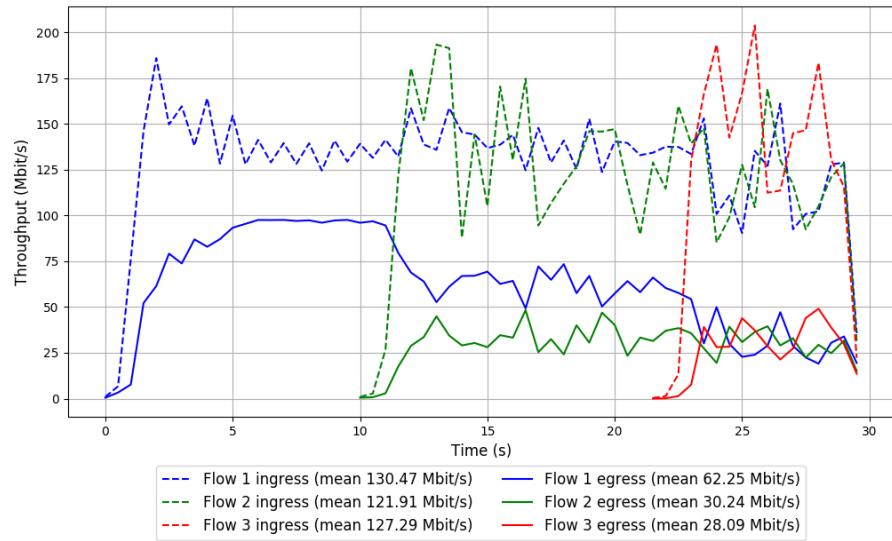


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-17 19:52:14
End at: 2018-04-17 19:52:44
Local clock offset: 4.608 ms
Remote clock offset: -1.342 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 163.526 ms
Loss rate: 63.35%
-- Flow 1:
Average throughput: 62.25 Mbit/s
95th percentile per-packet one-way delay: 162.269 ms
Loss rate: 52.28%
-- Flow 2:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 163.625 ms
Loss rate: 75.19%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 166.338 ms
Loss rate: 77.93%
```

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

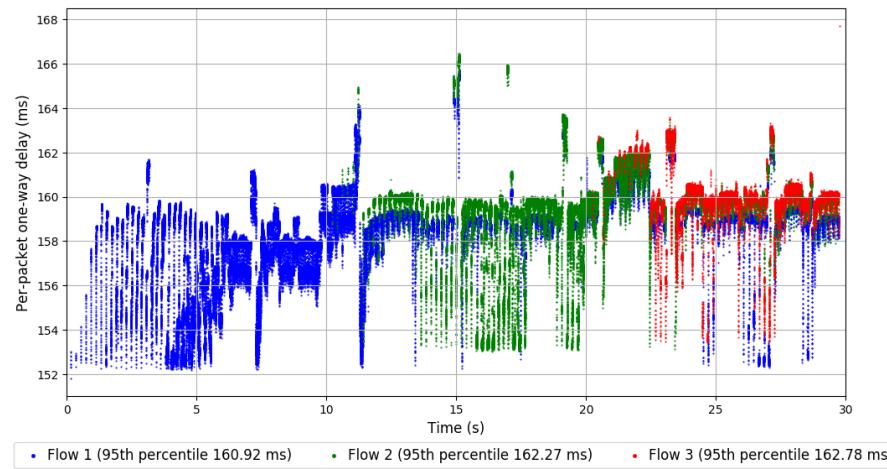
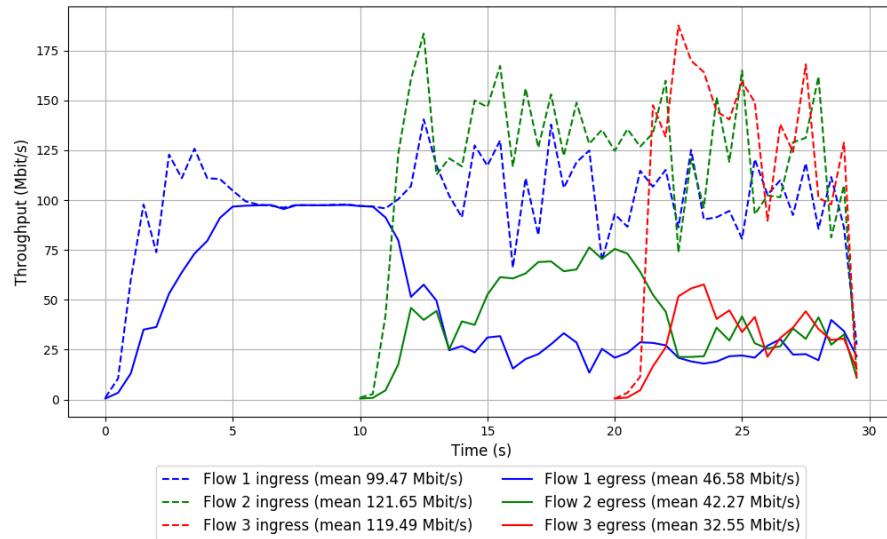


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-17 20:15:06
End at: 2018-04-17 20:15:36
Local clock offset: 3.106 ms
Remote clock offset: -1.268 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 161.862 ms
Loss rate: 61.05%
-- Flow 1:
Average throughput: 46.58 Mbit/s
95th percentile per-packet one-way delay: 160.917 ms
Loss rate: 53.16%
-- Flow 2:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 162.274 ms
Loss rate: 65.25%
-- Flow 3:
Average throughput: 32.55 Mbit/s
95th percentile per-packet one-way delay: 162.782 ms
Loss rate: 72.73%
```

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

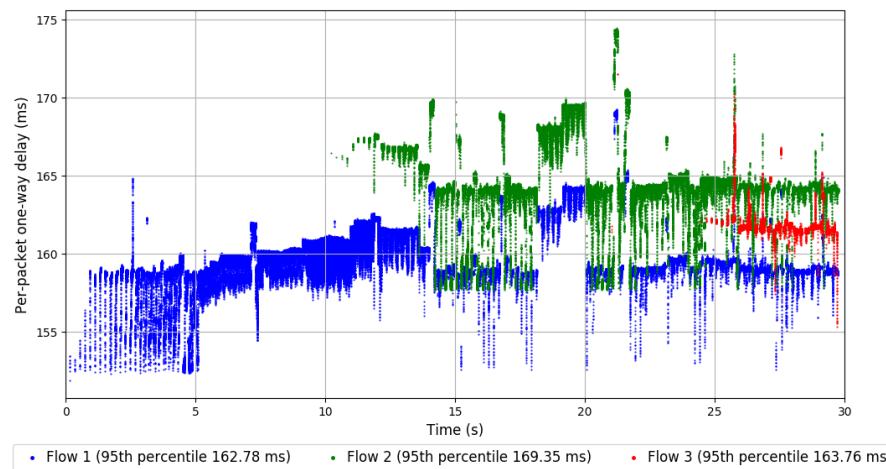
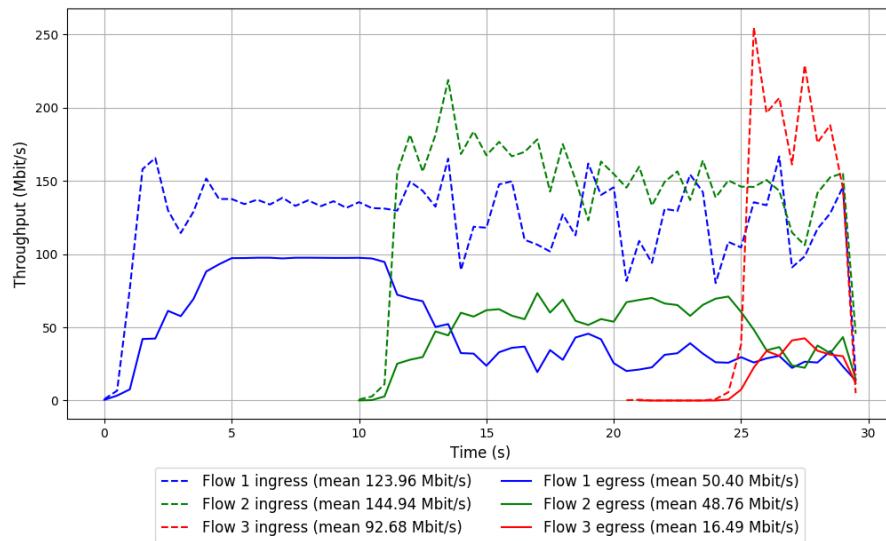


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-17 20:38:18
End at: 2018-04-17 20:38:48
Local clock offset: 5.209 ms
Remote clock offset: 1.25 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.40 Mbit/s
95th percentile per-packet one-way delay: 167.676 ms
Loss rate: 64.58%
-- Flow 1:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 162.780 ms
Loss rate: 59.33%
-- Flow 2:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 169.350 ms
Loss rate: 66.36%
-- Flow 3:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 163.763 ms
Loss rate: 82.21%
```

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

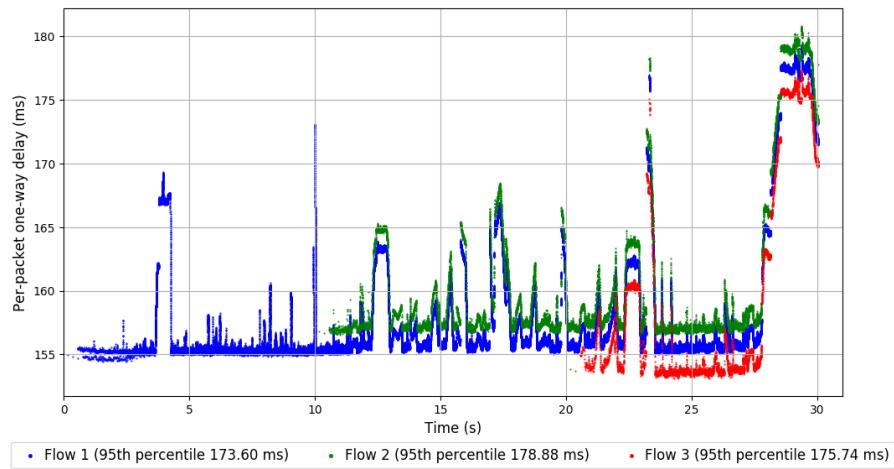
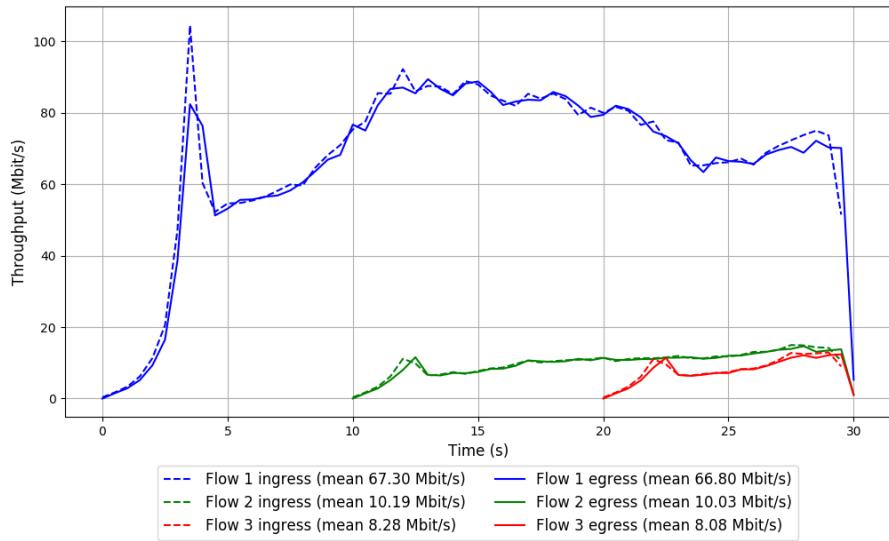


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-04-17 16:54:14
End at: 2018-04-17 16:54:44
Local clock offset: 6.668 ms
Remote clock offset: -1.566 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.13 Mbit/s
95th percentile per-packet one-way delay: 175.620 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 66.80 Mbit/s
95th percentile per-packet one-way delay: 173.601 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 178.881 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 175.743 ms
Loss rate: 2.15%
```

Run 1: Report of PCC-Vivace — Data Link

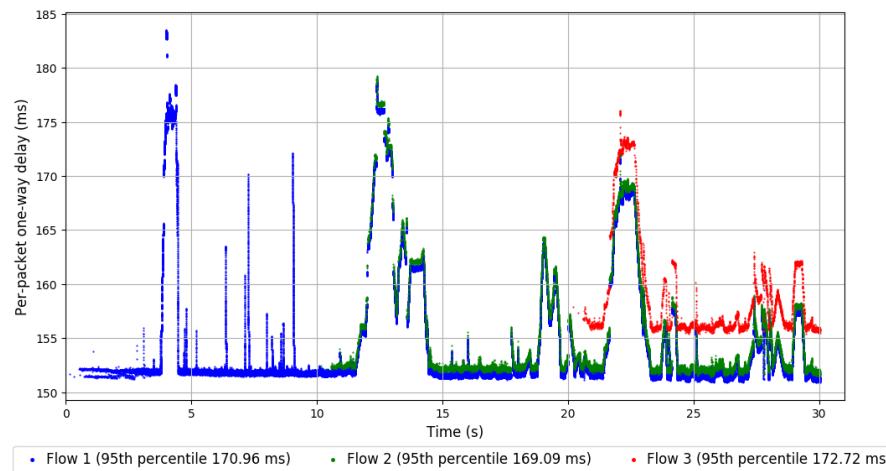
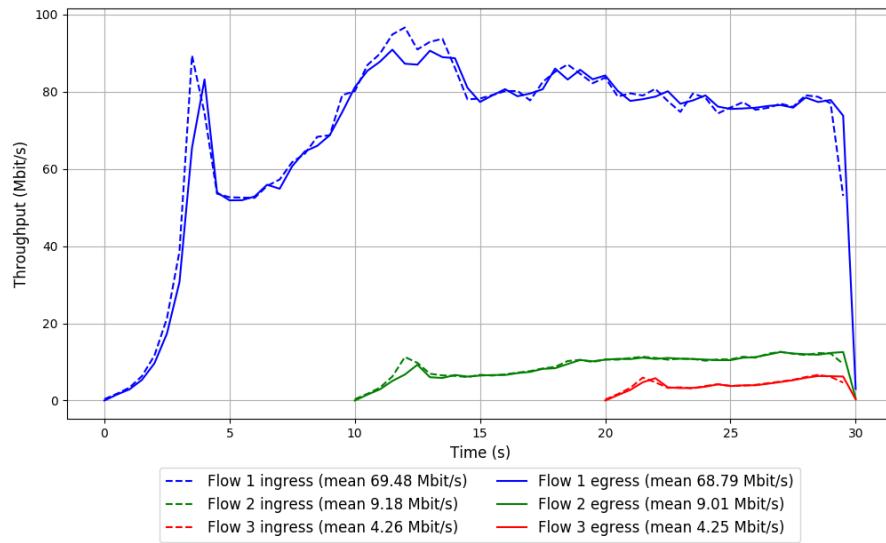


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-17 17:17:10
End at: 2018-04-17 17:17:40
Local clock offset: 5.324 ms
Remote clock offset: 1.205 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 170.898 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 68.79 Mbit/s
95th percentile per-packet one-way delay: 170.962 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 9.01 Mbit/s
95th percentile per-packet one-way delay: 169.090 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 172.715 ms
Loss rate: 0.28%
```

Run 2: Report of PCC-Vivace — Data Link

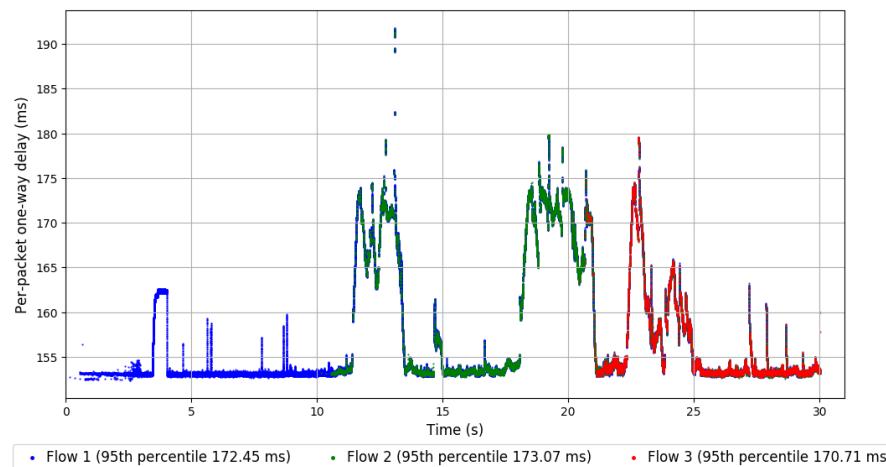
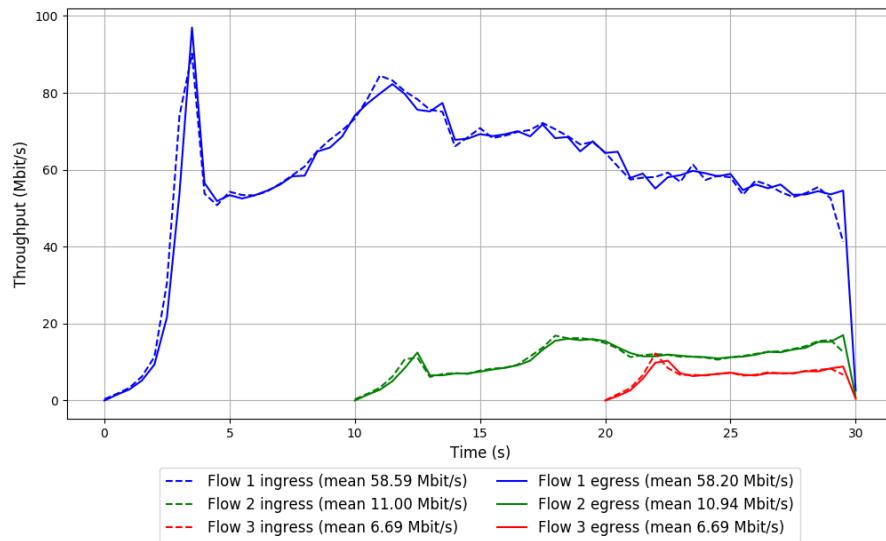


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-17 17:40:09
End at: 2018-04-17 17:40:39
Local clock offset: 7.552 ms
Remote clock offset: 7.255 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.67 Mbit/s
95th percentile per-packet one-way delay: 172.567 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 172.451 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 173.071 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 170.712 ms
Loss rate: 0.16%
```

Run 3: Report of PCC-Vivace — Data Link

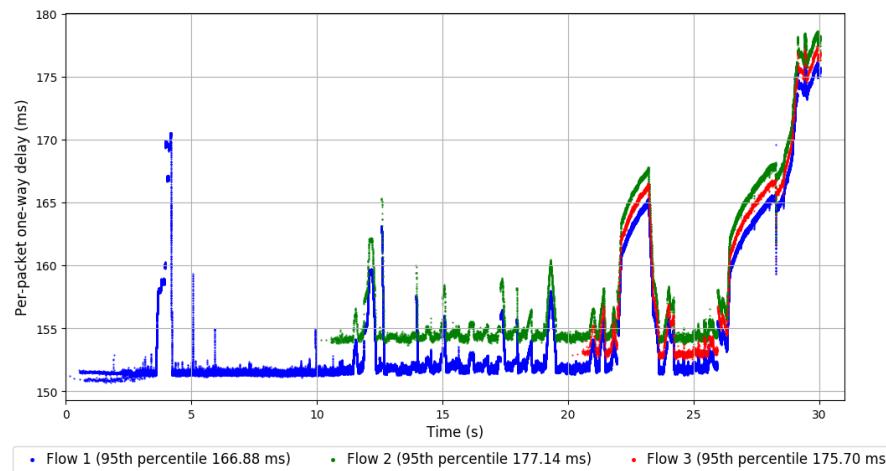
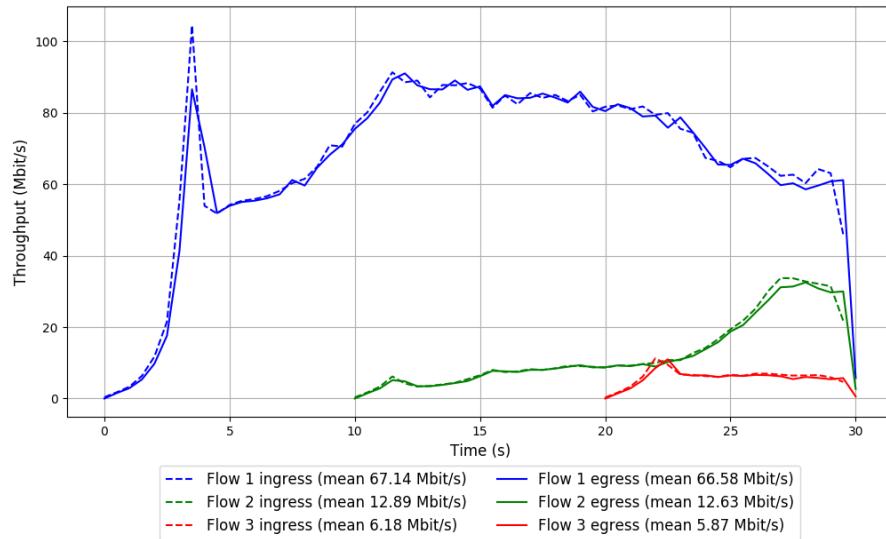


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-17 18:03:04
End at: 2018-04-17 18:03:34
Local clock offset: 5.931 ms
Remote clock offset: -6.674 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.92 Mbit/s
95th percentile per-packet one-way delay: 169.715 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 166.876 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 177.144 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 175.696 ms
Loss rate: 4.71%
```

Run 4: Report of PCC-Vivace — Data Link

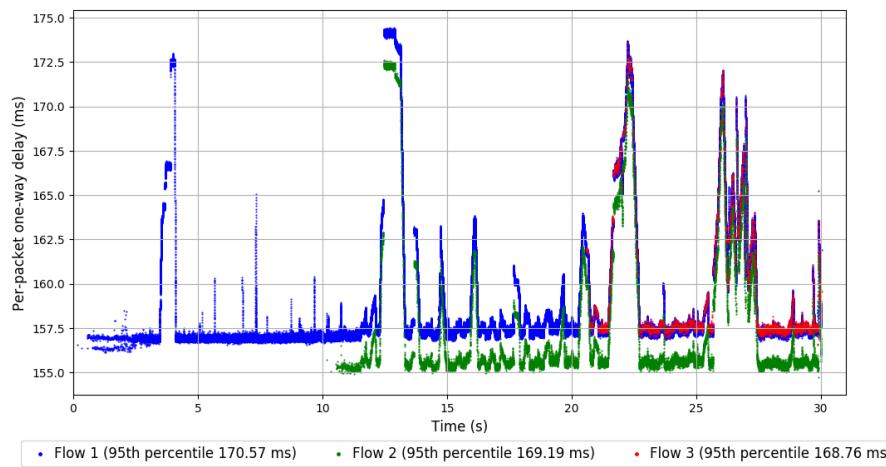
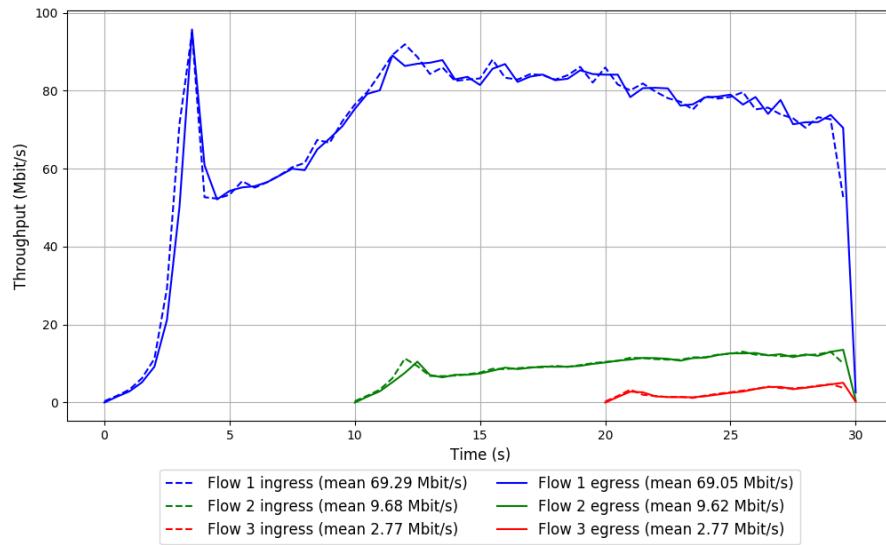


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-17 18:25:44
End at: 2018-04-17 18:26:14
Local clock offset: 3.998 ms
Remote clock offset: 2.627 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 170.311 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 69.05 Mbit/s
95th percentile per-packet one-way delay: 170.570 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 169.190 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 168.756 ms
Loss rate: 0.04%
```

Run 5: Report of PCC-Vivace — Data Link

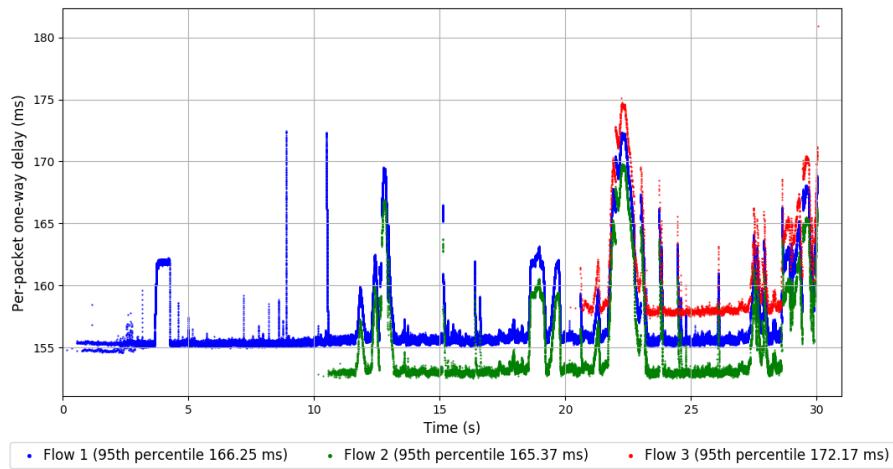
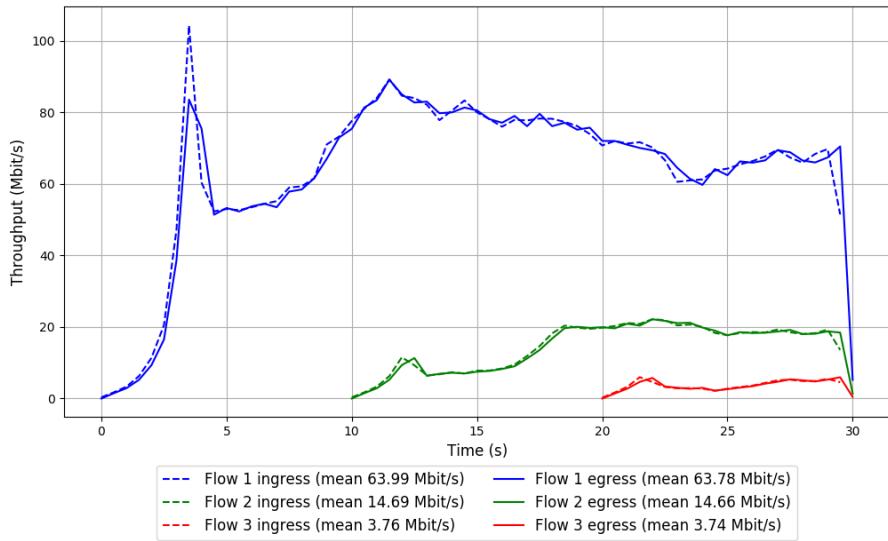


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-17 18:48:45
End at: 2018-04-17 18:49:15
Local clock offset: 5.733 ms
Remote clock offset: 1.762 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.73 Mbit/s
95th percentile per-packet one-way delay: 166.395 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 63.78 Mbit/s
95th percentile per-packet one-way delay: 166.253 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 14.66 Mbit/s
95th percentile per-packet one-way delay: 165.369 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 172.174 ms
Loss rate: 0.25%
```

Run 6: Report of PCC-Vivace — Data Link

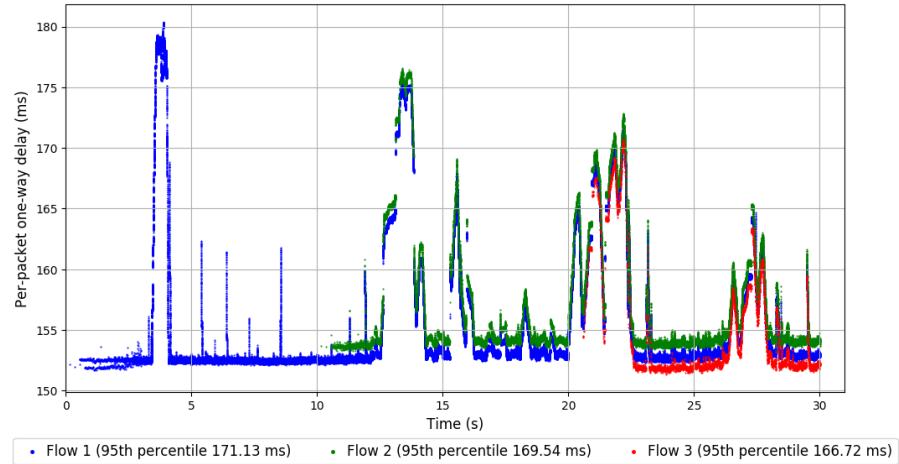
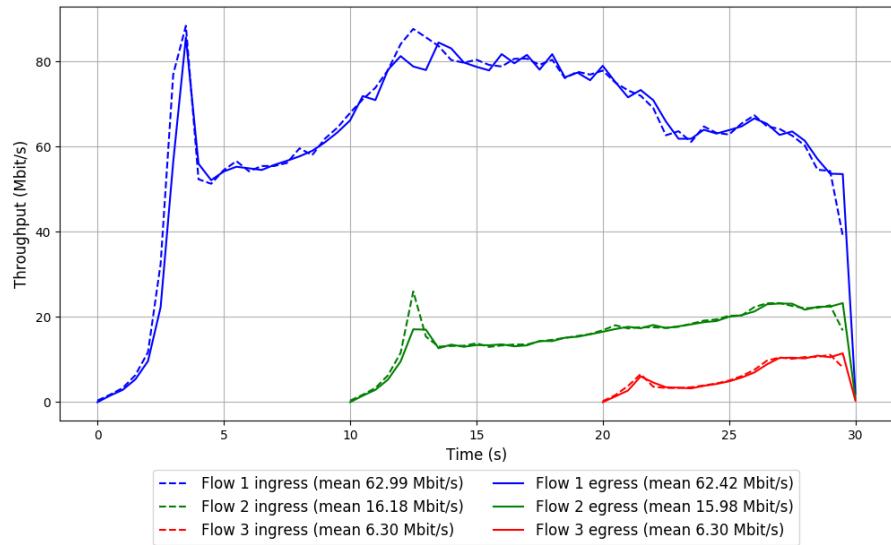


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-17 19:11:50
End at: 2018-04-17 19:12:21
Local clock offset: 8.999 ms
Remote clock offset: -0.53 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 170.668 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 171.128 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 169.542 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 166.716 ms
Loss rate: 0.17%
```

Run 7: Report of PCC-Vivace — Data Link

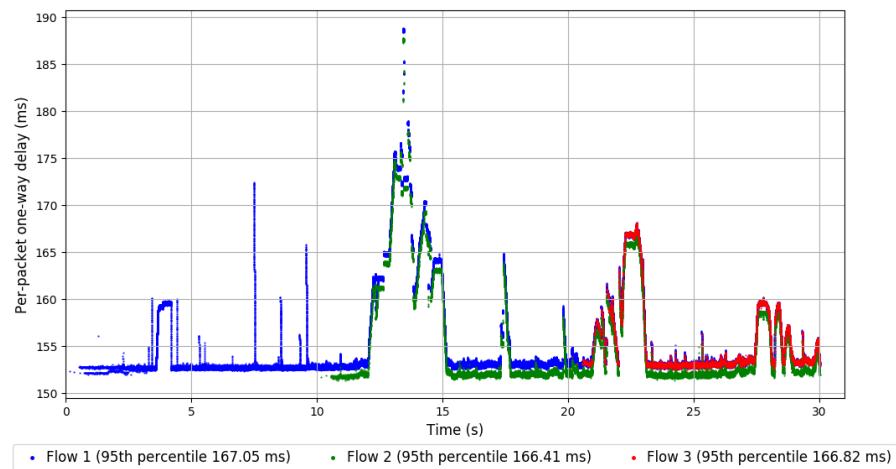
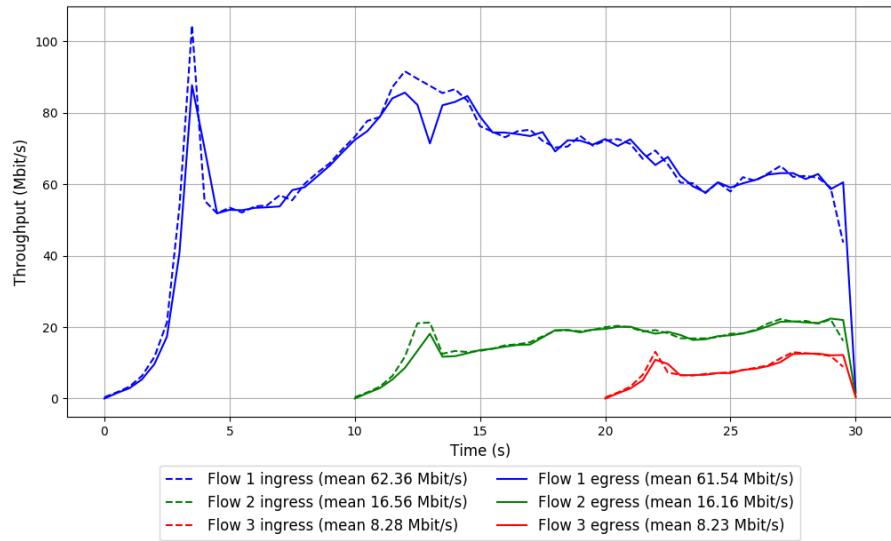


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-17 19:34:44
End at: 2018-04-17 19:35:15
Local clock offset: 11.9 ms
Remote clock offset: -1.596 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.99 Mbit/s
95th percentile per-packet one-way delay: 166.981 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 61.54 Mbit/s
95th percentile per-packet one-way delay: 167.052 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 16.16 Mbit/s
95th percentile per-packet one-way delay: 166.415 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 166.825 ms
Loss rate: 0.63%
```

Run 8: Report of PCC-Vivace — Data Link

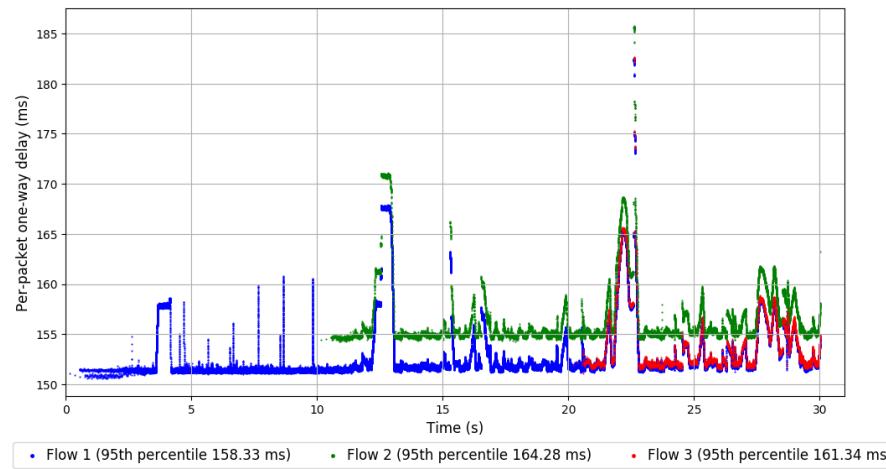
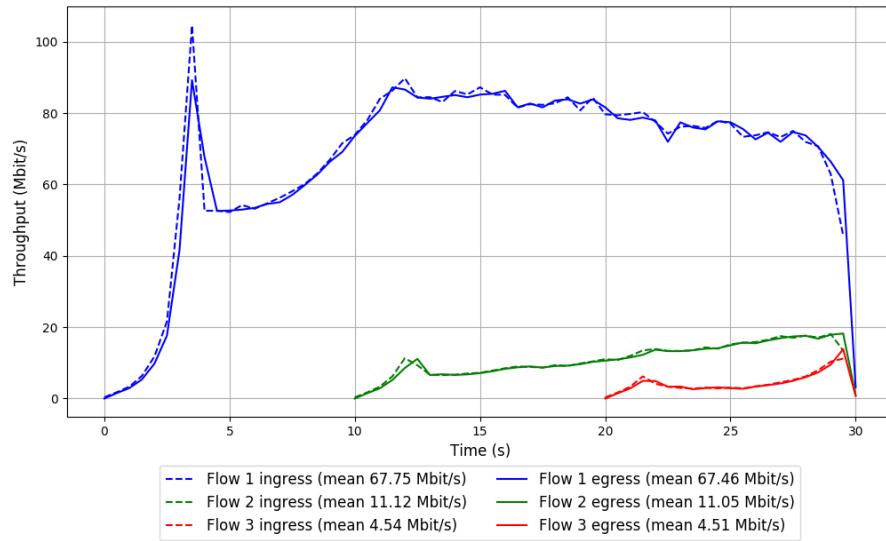


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-17 19:57:41
End at: 2018-04-17 19:58:11
Local clock offset: 3.71 ms
Remote clock offset: -1.696 ms

# Below is generated by plot.py at 2018-04-17 21:23:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 159.870 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 158.332 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 164.279 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 161.341 ms
Loss rate: 0.63%
```

Run 9: Report of PCC-Vivace — Data Link

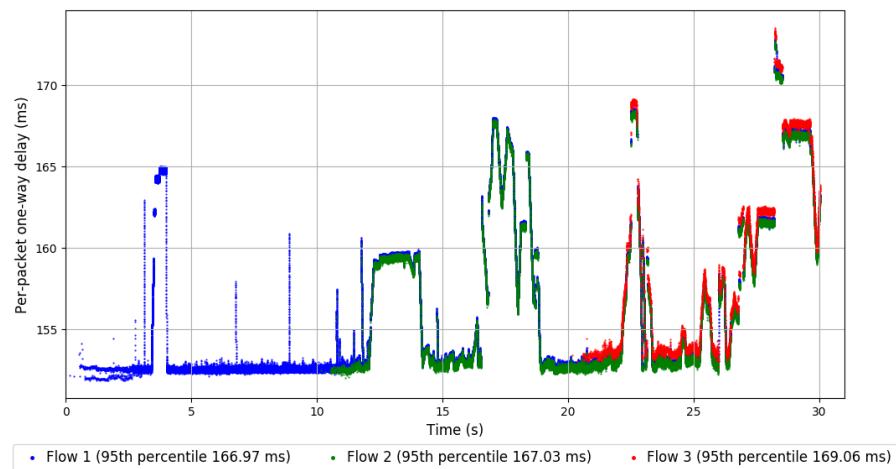
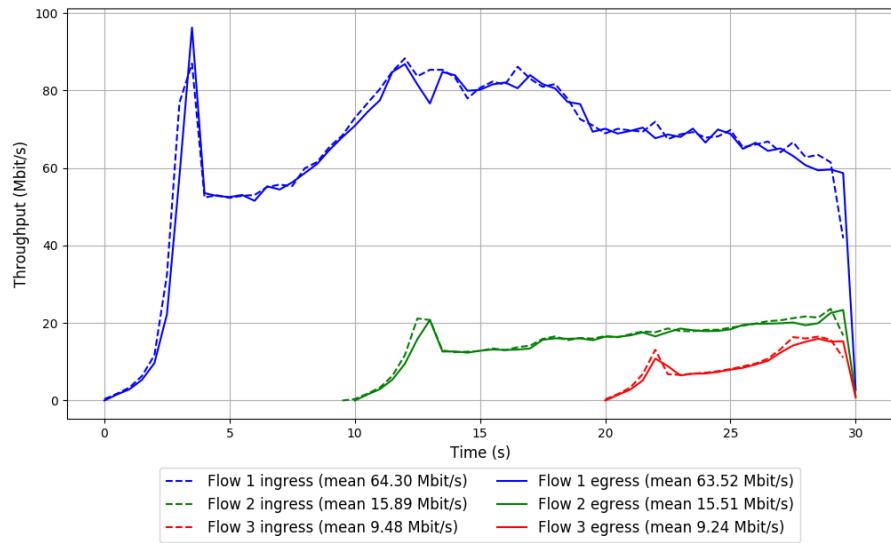


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-17 20:20:31
End at: 2018-04-17 20:21:01
Local clock offset: 4.086 ms
Remote clock offset: -1.212 ms

# Below is generated by plot.py at 2018-04-17 21:23:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 167.053 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 166.972 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 167.028 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 169.058 ms
Loss rate: 2.51%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 17:07:41
End at: 2018-04-17 17:08:11
Local clock offset: 5.702 ms
Remote clock offset: -3.294 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 17:30:41

End at: 2018-04-17 17:31:11

Local clock offset: 6.831 ms

Remote clock offset: 1.77 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 17:53:37

End at: 2018-04-17 17:54:08

Local clock offset: 8.004 ms

Remote clock offset: 4.261 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 18:16:17

End at: 2018-04-17 18:16:47

Local clock offset: 4.568 ms

Remote clock offset: 3.891 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 18:39:16

End at: 2018-04-17 18:39:46

Local clock offset: 5.322 ms

Remote clock offset: 1.627 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 19:02:20

End at: 2018-04-17 19:02:50

Local clock offset: 6.198 ms

Remote clock offset: 0.313 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 19:25:18

End at: 2018-04-17 19:25:48

Local clock offset: 10.932 ms

Remote clock offset: -1.016 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 19:48:06

End at: 2018-04-17 19:48:36

Local clock offset: 5.696 ms

Remote clock offset: -1.004 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 20:11:04

End at: 2018-04-17 20:11:34

Local clock offset: 2.153 ms

Remote clock offset: -1.321 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 20:33:59

End at: 2018-04-17 20:34:29

Local clock offset: 5.122 ms

Remote clock offset: -1.32 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing