

Pantheon Report

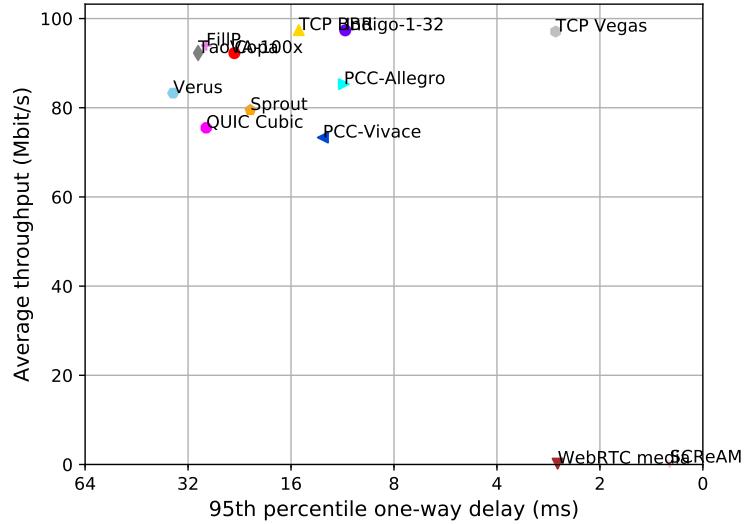
Generated at 2018-04-24 23:46:44 (UTC).
Data path: Brazil Ethernet (*remote*) → AWS Brazil 1 Ethernet (*local*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

Git summary:

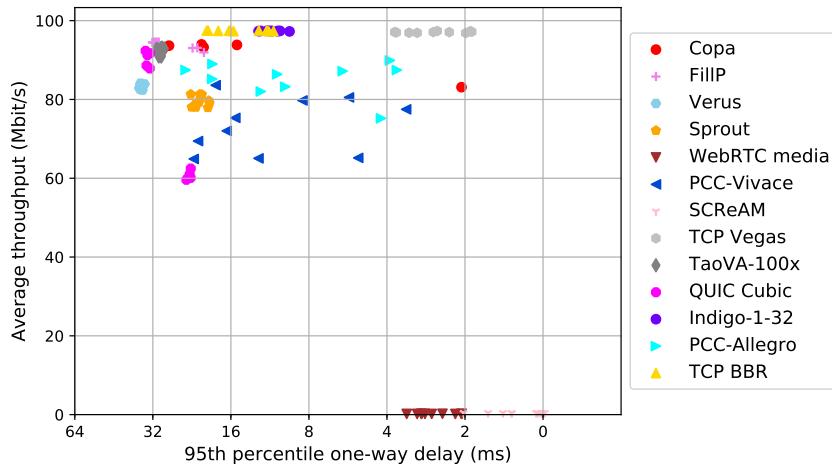
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows

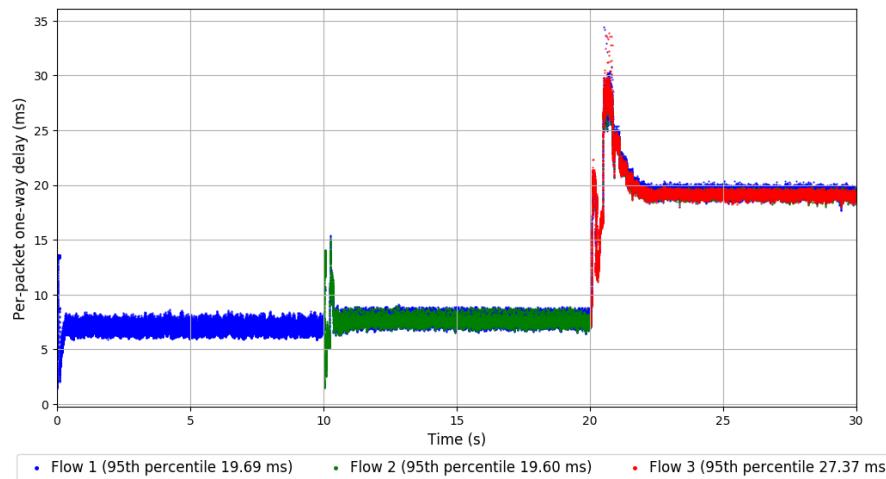
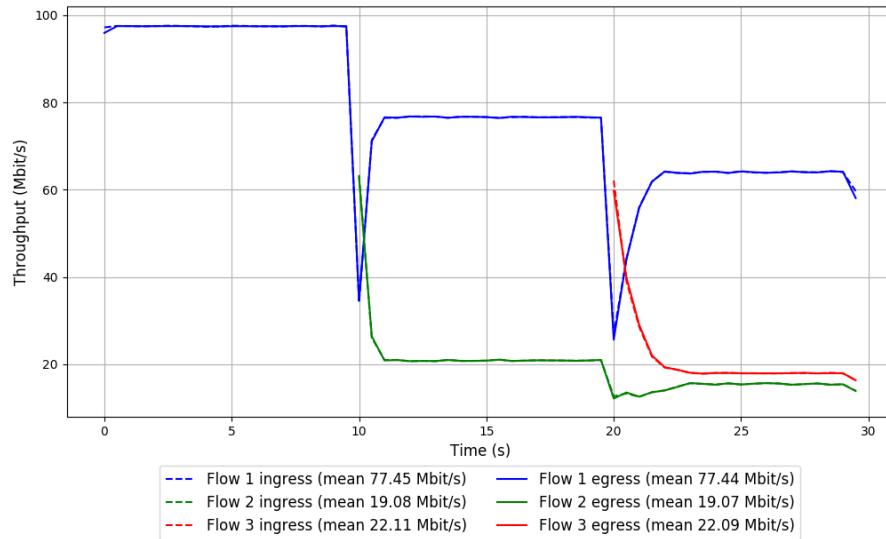


Run 1: Statistics of TCP BBR

```
Start at: 2018-04-24 17:16:34
End at: 2018-04-24 17:17:04
Local clock offset: -0.095 ms
Remote clock offset: -6.786 ms

# Below is generated by plot.py at 2018-04-24 23:26:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 19.827 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 77.44 Mbit/s
95th percentile per-packet one-way delay: 19.690 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 19.604 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 22.09 Mbit/s
95th percentile per-packet one-way delay: 27.369 ms
Loss rate: 0.16%
```

Run 1: Report of TCP BBR — Data Link

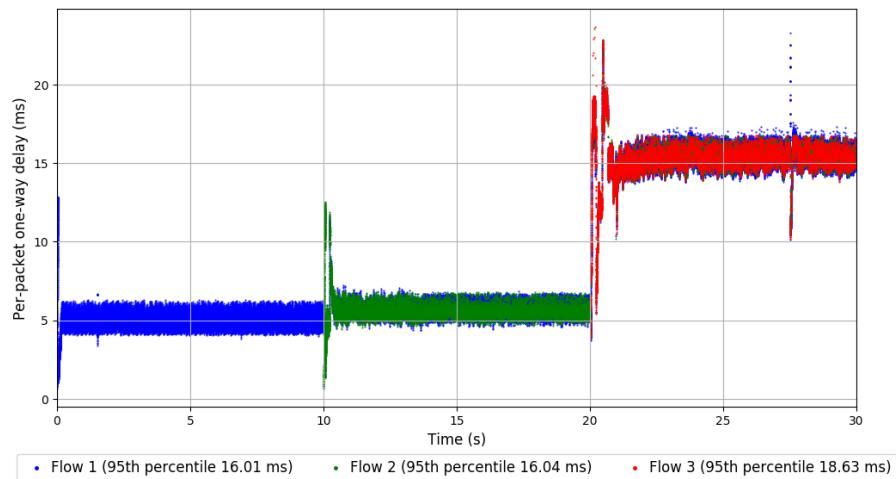
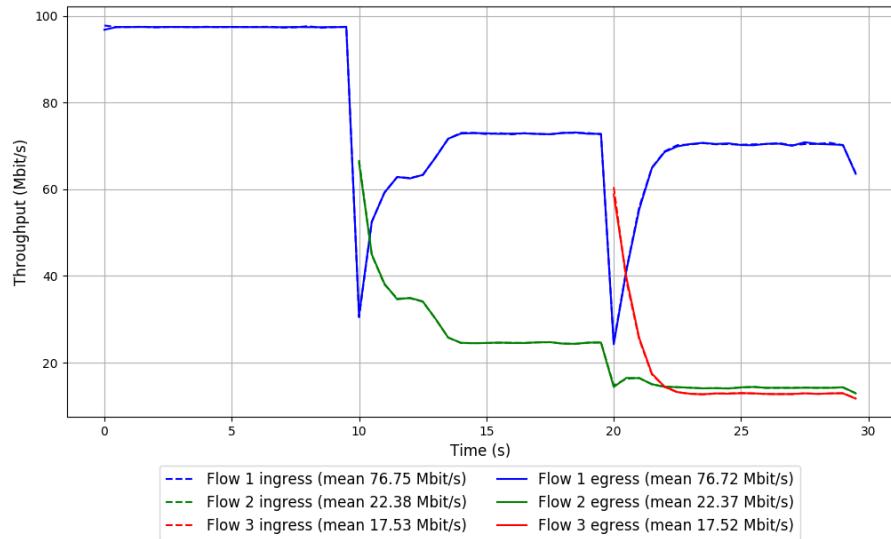


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-24 17:35:44
End at: 2018-04-24 17:36:14
Local clock offset: 1.398 ms
Remote clock offset: -6.237 ms

# Below is generated by plot.py at 2018-04-24 23:26:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 16.100 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 76.72 Mbit/s
95th percentile per-packet one-way delay: 16.006 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 22.37 Mbit/s
95th percentile per-packet one-way delay: 16.037 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 18.628 ms
Loss rate: 0.12%
```

Run 2: Report of TCP BBR — Data Link

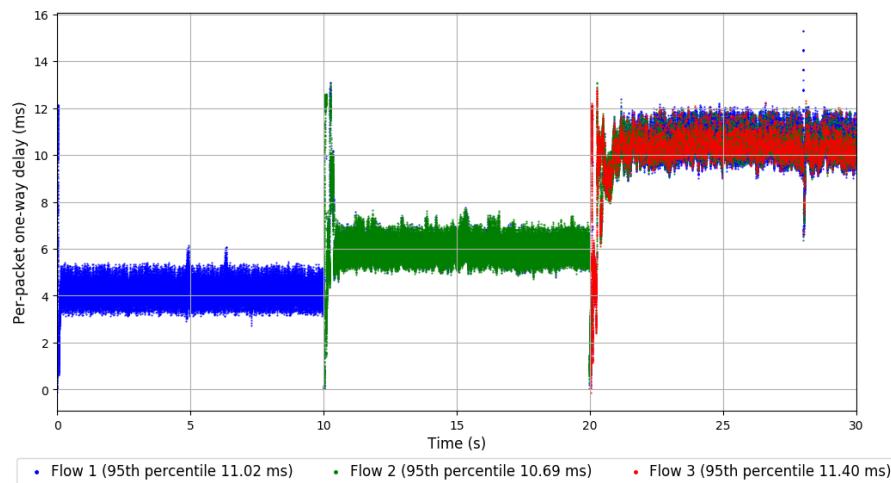
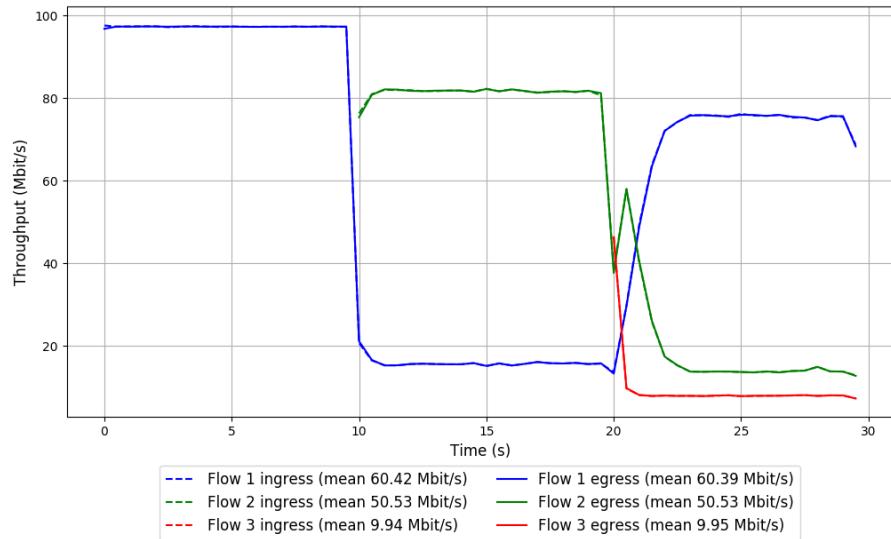


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-24 17:54:50
End at: 2018-04-24 17:55:20
Local clock offset: 2.072 ms
Remote clock offset: -5.751 ms

# Below is generated by plot.py at 2018-04-24 23:26:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 10.957 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 11.020 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 50.53 Mbit/s
95th percentile per-packet one-way delay: 10.690 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 9.95 Mbit/s
95th percentile per-packet one-way delay: 11.401 ms
Loss rate: 0.11%
```

Run 3: Report of TCP BBR — Data Link

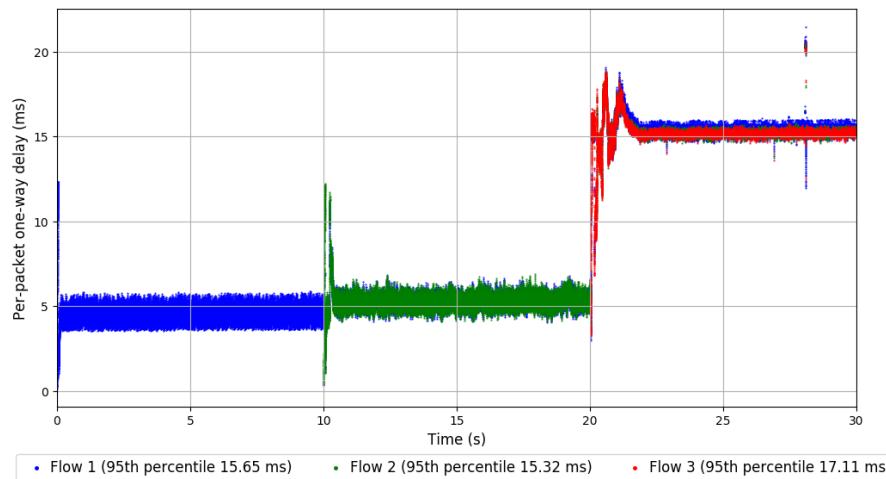
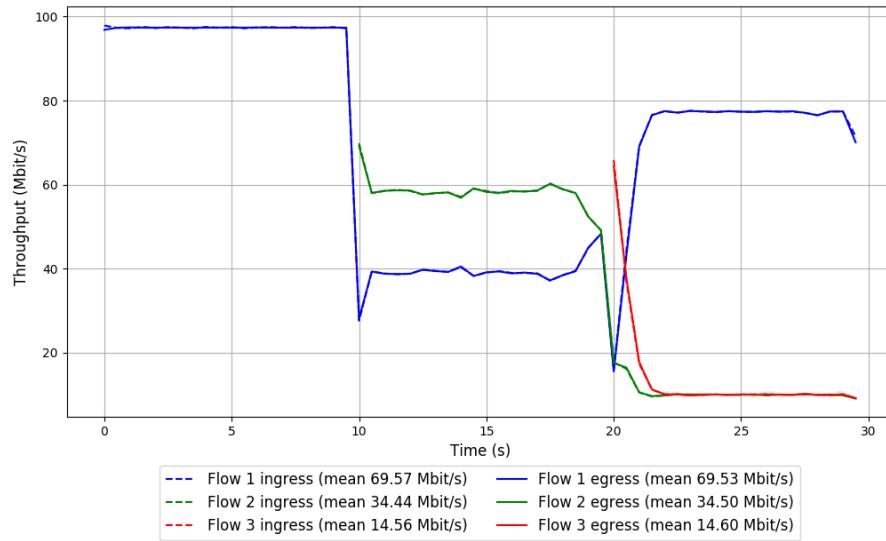


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-24 18:13:58
End at: 2018-04-24 18:14:28
Local clock offset: 2.856 ms
Remote clock offset: -5.505 ms

# Below is generated by plot.py at 2018-04-24 23:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 15.635 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 69.53 Mbit/s
95th percentile per-packet one-way delay: 15.647 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 15.316 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 17.111 ms
Loss rate: 0.12%
```

Run 4: Report of TCP BBR — Data Link

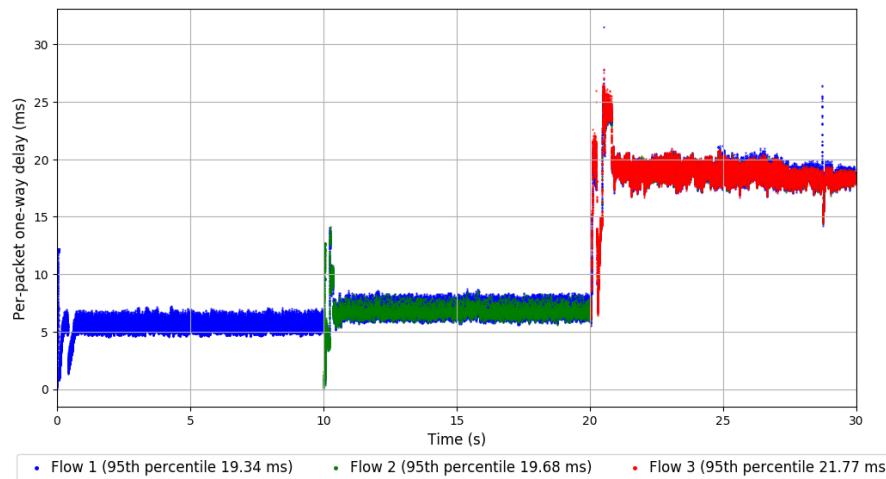
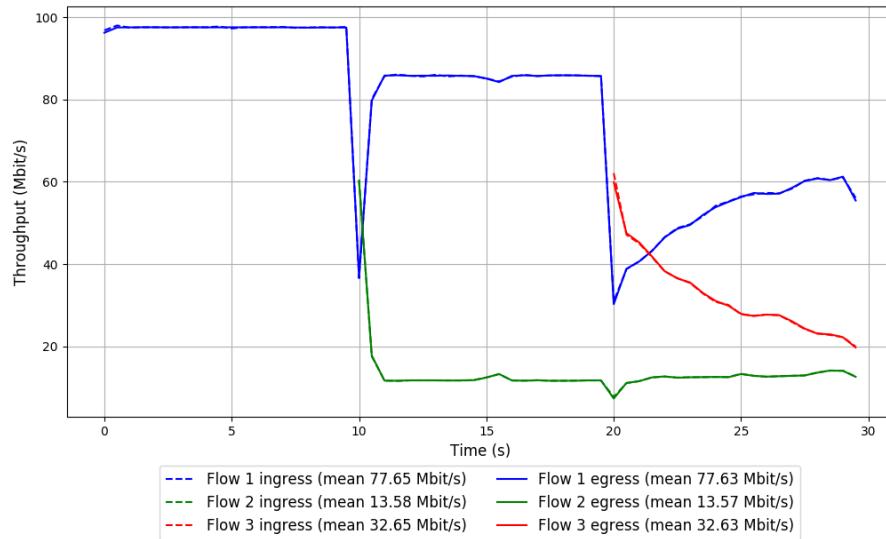


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-24 18:33:09
End at: 2018-04-24 18:38:39
Local clock offset: -0.964 ms
Remote clock offset: -5.294 ms

# Below is generated by plot.py at 2018-04-24 23:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 19.597 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 77.63 Mbit/s
95th percentile per-packet one-way delay: 19.337 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 13.57 Mbit/s
95th percentile per-packet one-way delay: 19.677 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 21.773 ms
Loss rate: 0.15%
```

Run 5: Report of TCP BBR — Data Link

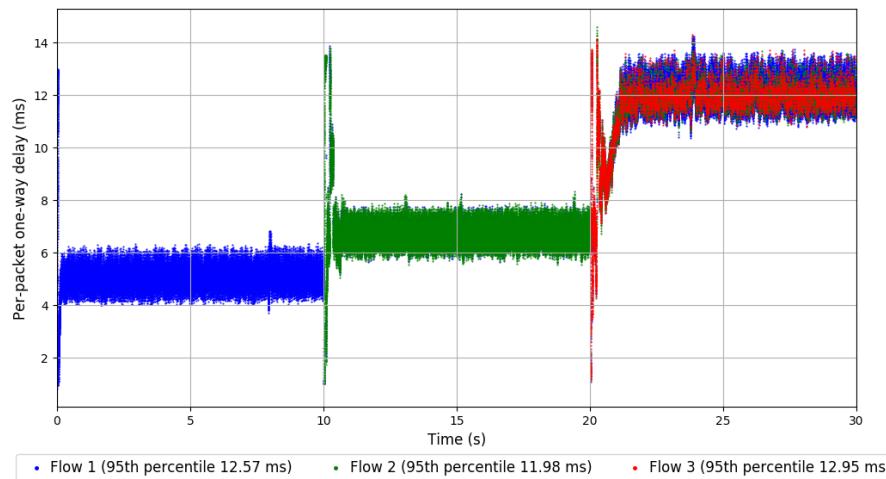
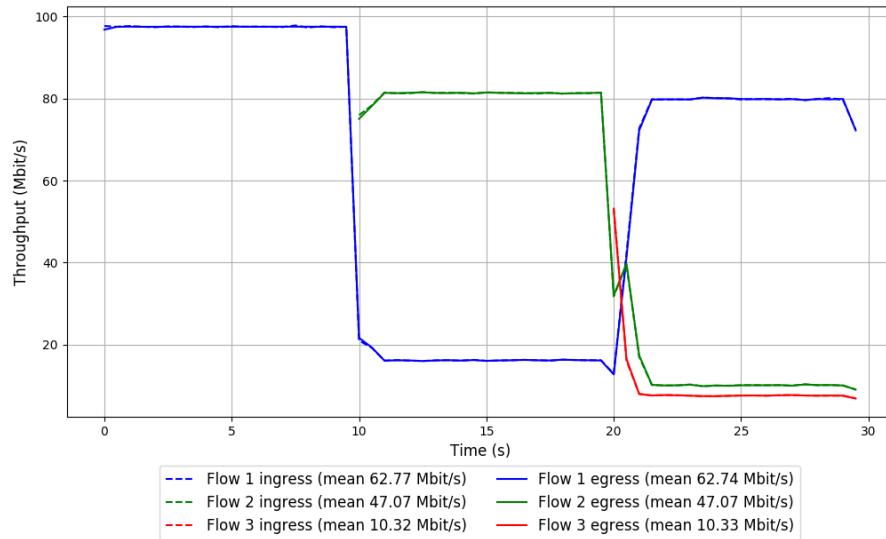


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-24 18:52:19
End at: 2018-04-24 18:52:49
Local clock offset: -3.013 ms
Remote clock offset: -5.369 ms

# Below is generated by plot.py at 2018-04-24 23:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 12.482 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 12.571 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 47.07 Mbit/s
95th percentile per-packet one-way delay: 11.976 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 12.949 ms
Loss rate: 0.09%
```

Run 6: Report of TCP BBR — Data Link

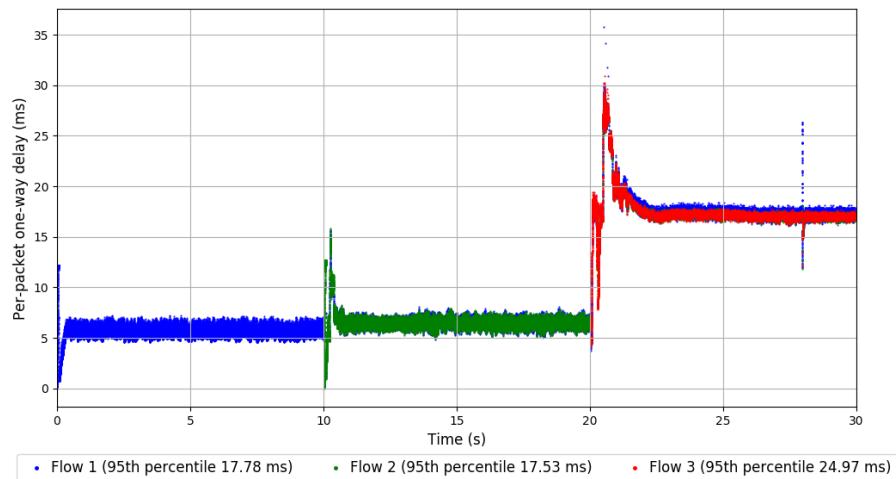
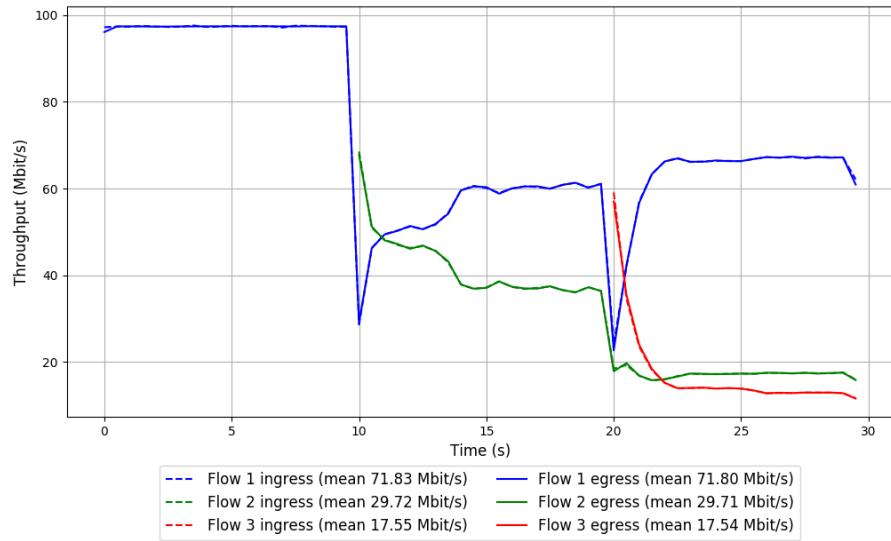


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-24 19:11:28
End at: 2018-04-24 19:11:58
Local clock offset: -7.015 ms
Remote clock offset: -5.252 ms

# Below is generated by plot.py at 2018-04-24 23:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 17.898 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 17.781 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 29.71 Mbit/s
95th percentile per-packet one-way delay: 17.531 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 17.54 Mbit/s
95th percentile per-packet one-way delay: 24.969 ms
Loss rate: 0.15%
```

Run 7: Report of TCP BBR — Data Link

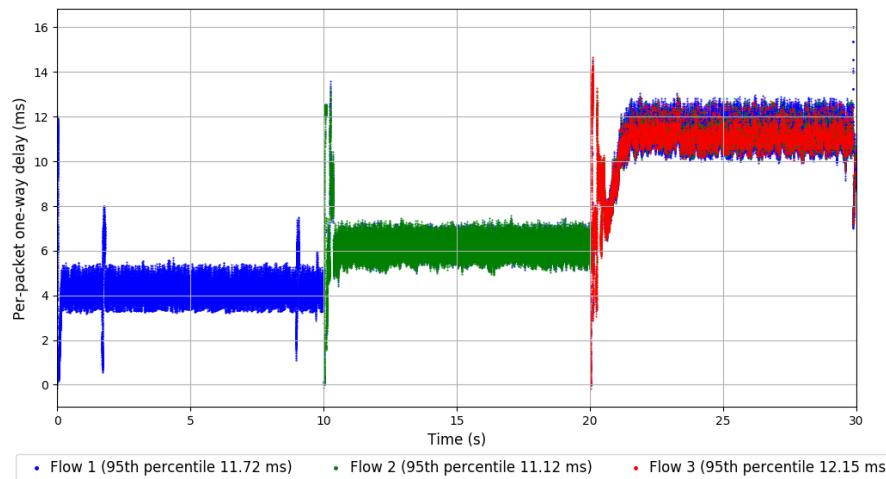
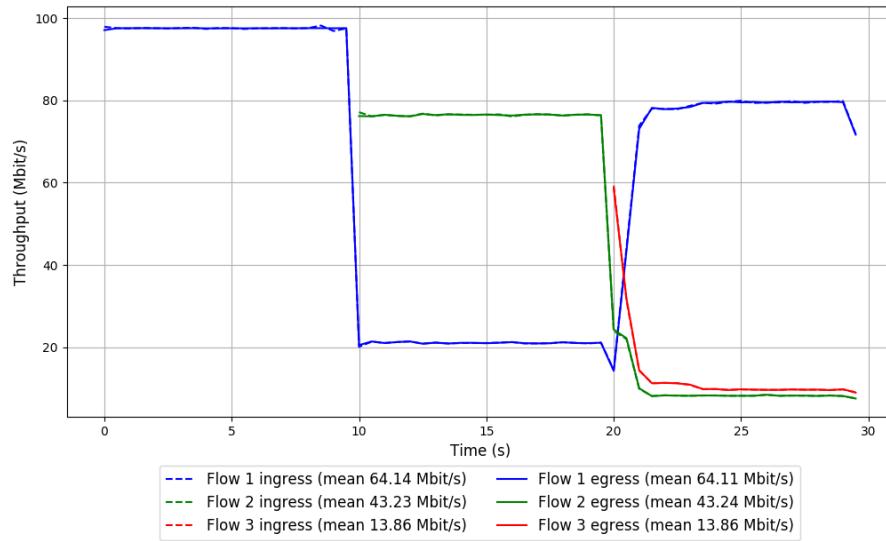


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-24 19:30:39
End at: 2018-04-24 19:31:09
Local clock offset: -6.393 ms
Remote clock offset: -5.491 ms

# Below is generated by plot.py at 2018-04-24 23:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 11.647 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 11.717 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 43.24 Mbit/s
95th percentile per-packet one-way delay: 11.122 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 12.149 ms
Loss rate: 0.10%
```

Run 8: Report of TCP BBR — Data Link

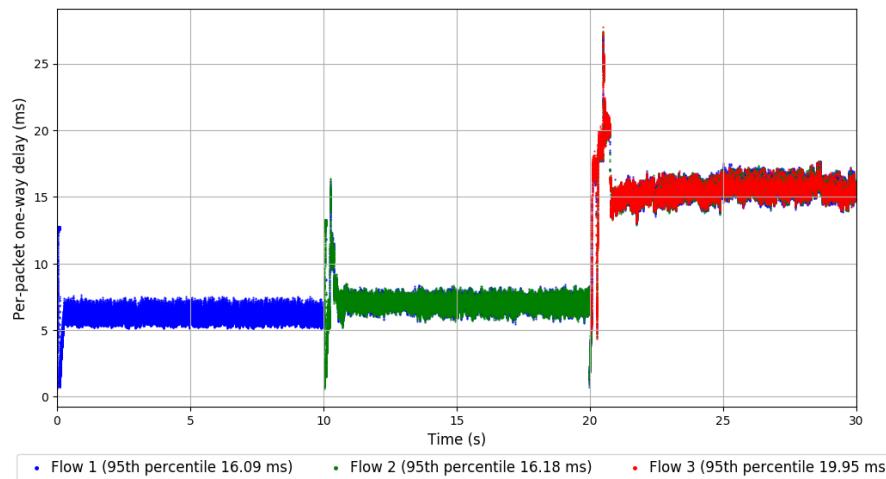
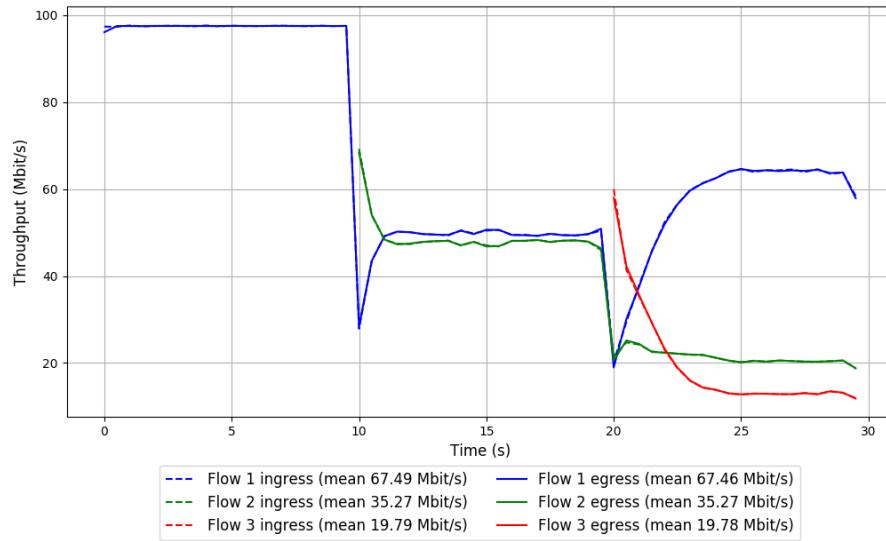


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-24 19:49:49
End at: 2018-04-24 19:50:19
Local clock offset: -5.457 ms
Remote clock offset: -6.213 ms

# Below is generated by plot.py at 2018-04-24 23:27:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 16.252 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 16.091 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 35.27 Mbit/s
95th percentile per-packet one-way delay: 16.176 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 19.950 ms
Loss rate: 0.12%
```

Run 9: Report of TCP BBR — Data Link

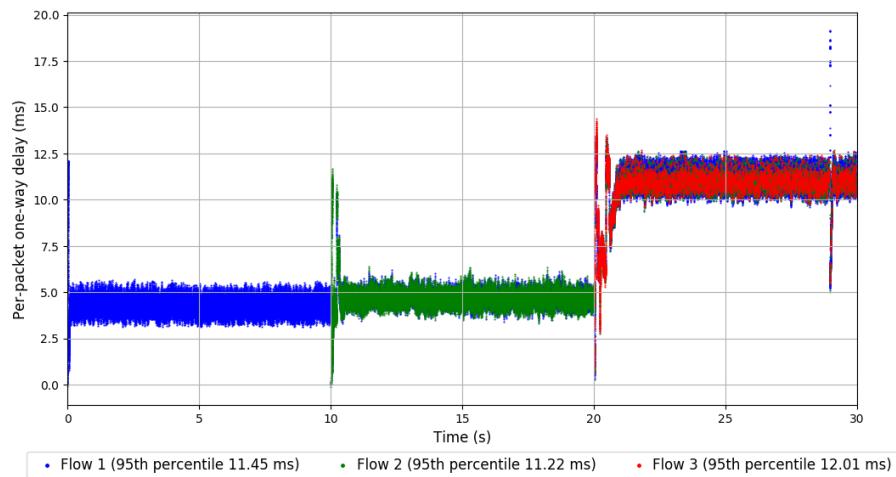
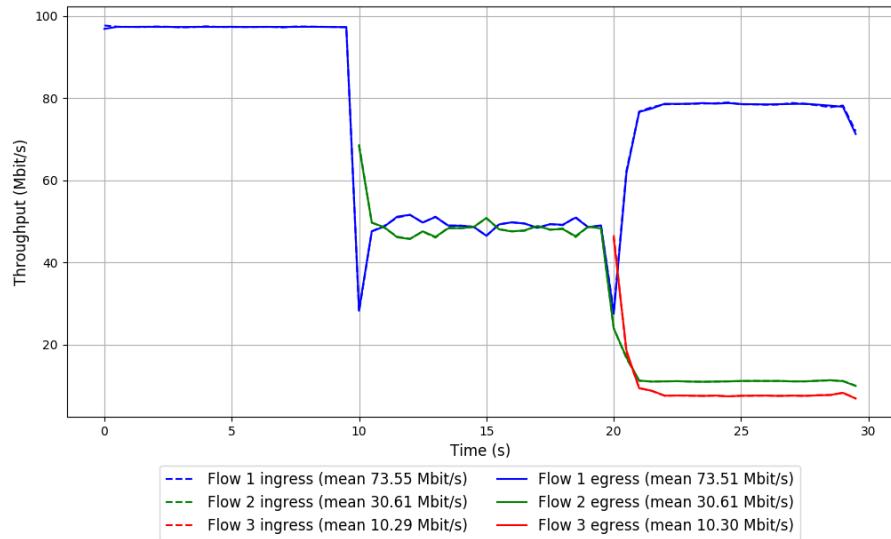


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-24 20:08:59
End at: 2018-04-24 20:09:29
Local clock offset: -5.774 ms
Remote clock offset: -7.328 ms

# Below is generated by plot.py at 2018-04-24 23:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 11.439 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 11.447 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 11.218 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 12.010 ms
Loss rate: 0.11%
```

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 17:14:16

End at: 2018-04-24 17:14:46

Local clock offset: -2.135 ms

Remote clock offset: -6.764 ms

Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 17:33:26

End at: 2018-04-24 17:33:56

Local clock offset: 1.234 ms

Remote clock offset: -6.392 ms

Run 2: Report of TCP Cubic — Data Link

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Figure is missing

Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 17:52:32

End at: 2018-04-24 17:53:02

Local clock offset: 2.679 ms

Remote clock offset: -5.767 ms

Run 3: Report of TCP Cubic — Data Link

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Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 18:11:40

End at: 2018-04-24 18:12:10

Local clock offset: 4.804 ms

Remote clock offset: -5.534 ms

Run 4: Report of TCP Cubic — Data Link

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Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 18:30:50

End at: 2018-04-24 18:31:20

Local clock offset: 0.701 ms

Remote clock offset: -5.325 ms

Run 5: Report of TCP Cubic — Data Link

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Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 18:50:01

End at: 2018-04-24 18:50:31

Local clock offset: -2.097 ms

Remote clock offset: -5.371 ms

Run 6: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 19:09:10

End at: 2018-04-24 19:09:40

Local clock offset: -6.036 ms

Remote clock offset: -5.323 ms

Run 7: Report of TCP Cubic — Data Link

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Figure is missing

Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 19:28:21

End at: 2018-04-24 19:28:51

Local clock offset: -5.791 ms

Remote clock offset: -5.497 ms

Run 8: Report of TCP Cubic — Data Link

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Figure is missing

Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 19:47:31

End at: 2018-04-24 19:48:01

Local clock offset: -5.338 ms

Remote clock offset: -5.93 ms

Run 9: Report of TCP Cubic — Data Link

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Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 20:06:41

End at: 2018-04-24 20:07:11

Local clock offset: -5.005 ms

Remote clock offset: -7.239 ms

Run 10: Report of TCP Cubic — Data Link

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Run 1: Statistics of LEDBAT

Start at: 2018-04-24 16:59:42
End at: 2018-04-24 17:00:12
Local clock offset: -4.062 ms
Remote clock offset: -6.321 ms

Run 1: Report of LEDBAT — Data Link

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Run 2: Statistics of LEDBAT

Start at: 2018-04-24 17:18:51
End at: 2018-04-24 17:19:21
Local clock offset: -0.505 ms
Remote clock offset: -6.881 ms

Run 2: Report of LEDBAT — Data Link

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Run 3: Statistics of LEDBAT

Start at: 2018-04-24 17:38:00
End at: 2018-04-24 17:38:30
Local clock offset: 1.585 ms
Remote clock offset: -6.135 ms

Run 3: Report of LEDBAT — Data Link

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Run 4: Statistics of LEDBAT

Start at: 2018-04-24 17:57:07
End at: 2018-04-24 17:57:37
Local clock offset: 2.997 ms
Remote clock offset: -5.71 ms

Run 4: Report of LEDBAT — Data Link

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Run 5: Statistics of LEDBAT

Start at: 2018-04-24 18:16:16
End at: 2018-04-24 18:16:46
Local clock offset: 2.678 ms
Remote clock offset: -5.487 ms

Run 5: Report of LEDBAT — Data Link

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Run 6: Statistics of LEDBAT

Start at: 2018-04-24 18:35:25
End at: 2018-04-24 18:35:55
Local clock offset: -0.361 ms
Remote clock offset: -5.219 ms

Run 6: Report of LEDBAT — Data Link

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Run 7: Statistics of LEDBAT

Start at: 2018-04-24 18:54:36
End at: 2018-04-24 18:55:06
Local clock offset: -2.854 ms
Remote clock offset: -5.338 ms

Run 7: Report of LEDBAT — Data Link

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Run 8: Statistics of LEDBAT

Start at: 2018-04-24 19:13:45
End at: 2018-04-24 19:14:15
Local clock offset: -5.728 ms
Remote clock offset: -5.393 ms

Run 8: Report of LEDBAT — Data Link

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Run 9: Statistics of LEDBAT

Start at: 2018-04-24 19:32:56
End at: 2018-04-24 19:33:26
Local clock offset: -5.466 ms
Remote clock offset: -5.494 ms

Run 9: Report of LEDBAT — Data Link

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Run 10: Statistics of LEDBAT

Start at: 2018-04-24 19:52:06
End at: 2018-04-24 19:52:36
Local clock offset: -4.67 ms
Remote clock offset: -6.467 ms

Run 10: Report of LEDBAT — Data Link

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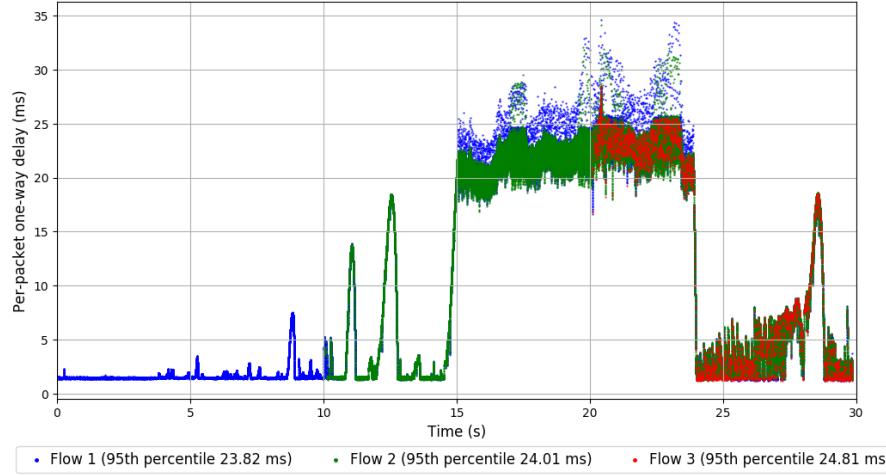
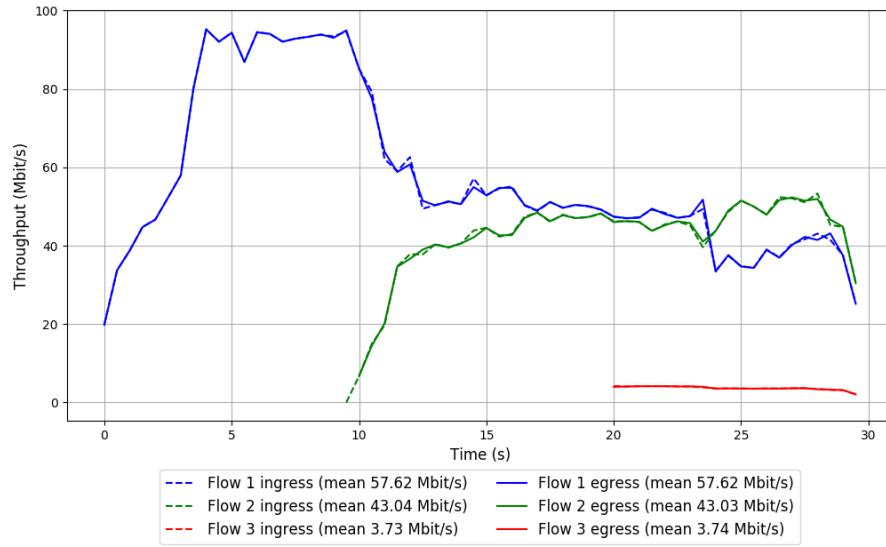
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-24 17:10:51
End at: 2018-04-24 17:11:21
Local clock offset: -1.473 ms
Remote clock offset: -6.752 ms

# Below is generated by plot.py at 2018-04-24 23:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.46 Mbit/s
95th percentile per-packet one-way delay: 23.924 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.62 Mbit/s
95th percentile per-packet one-way delay: 23.825 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 43.03 Mbit/s
95th percentile per-packet one-way delay: 24.010 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 24.810 ms
Loss rate: 0.03%
```

Run 1: Report of PCC-Allegro — Data Link

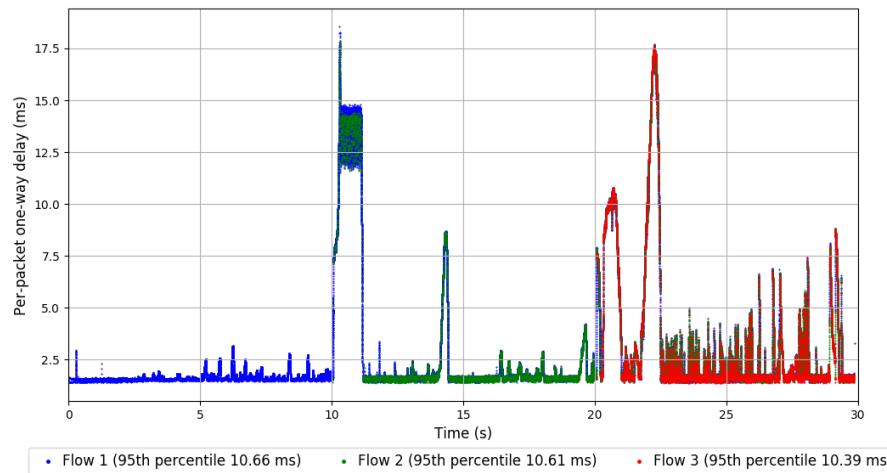
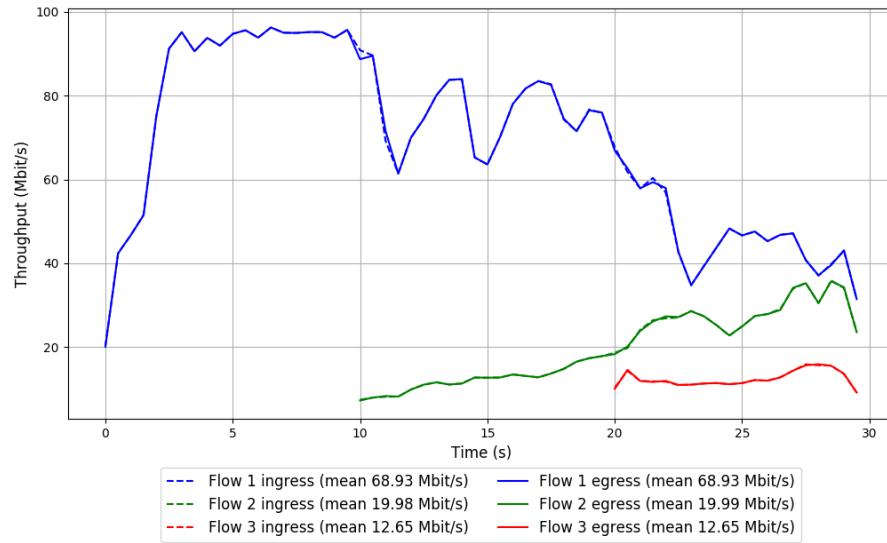


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-24 17:30:01
End at: 2018-04-24 17:30:31
Local clock offset: 1.634 ms
Remote clock offset: -6.659 ms

# Below is generated by plot.py at 2018-04-24 23:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 10.603 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.93 Mbit/s
95th percentile per-packet one-way delay: 10.662 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 10.614 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 10.388 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Allegro — Data Link

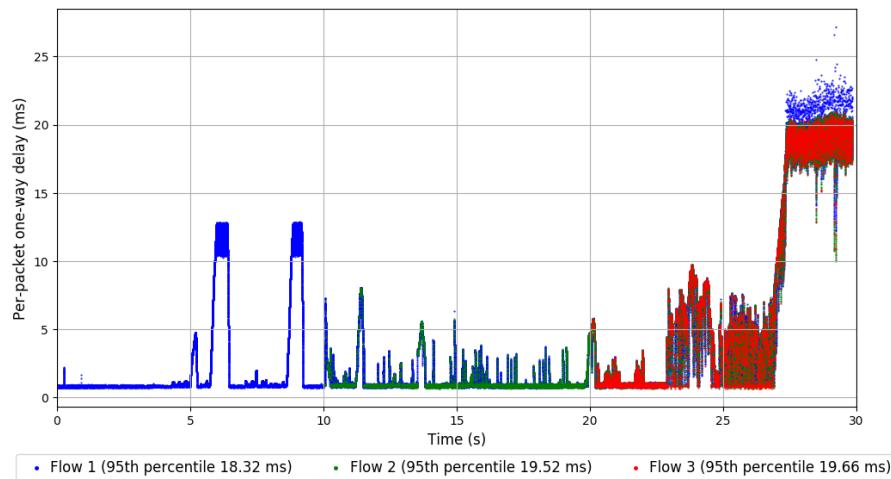
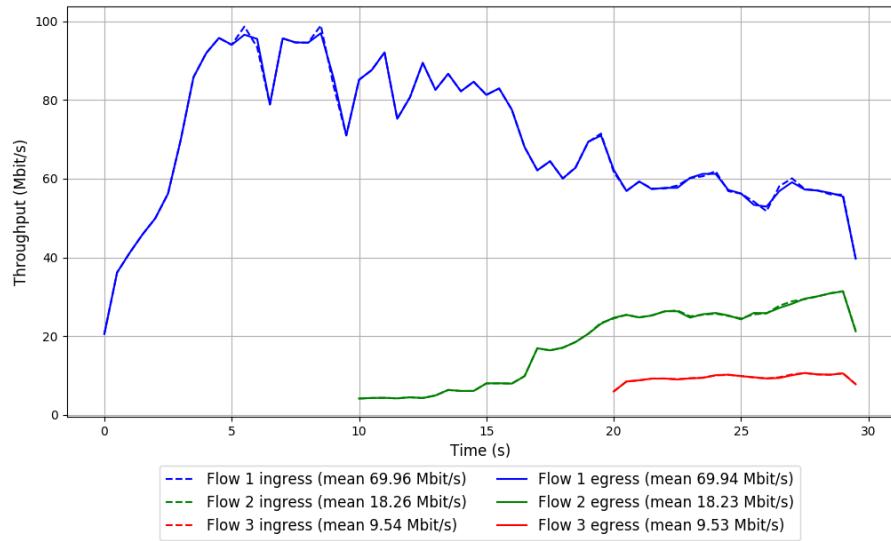


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-24 17:49:08
End at: 2018-04-24 17:49:38
Local clock offset: 2.46 ms
Remote clock offset: -5.814 ms

# Below is generated by plot.py at 2018-04-24 23:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.19 Mbit/s
95th percentile per-packet one-way delay: 18.892 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 69.94 Mbit/s
95th percentile per-packet one-way delay: 18.320 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 19.524 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 19.663 ms
Loss rate: 0.24%
```

Run 3: Report of PCC-Allegro — Data Link

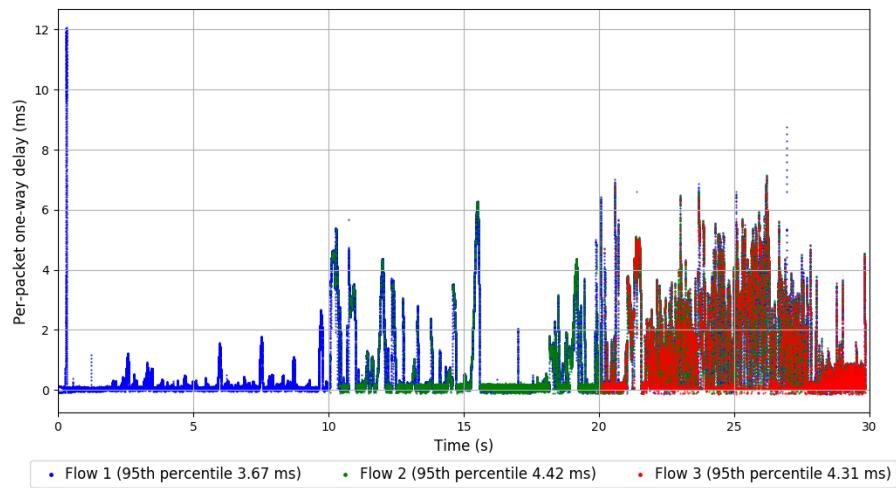
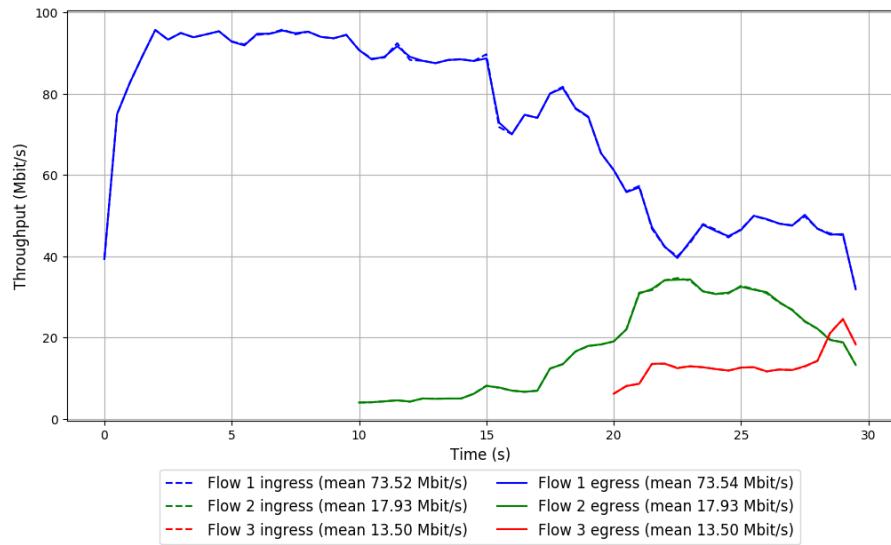


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-24 18:08:15
End at: 2018-04-24 18:08:45
Local clock offset: 3.063 ms
Remote clock offset: -5.575 ms

# Below is generated by plot.py at 2018-04-24 23:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 3.896 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 3.671 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 4.416 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 4.306 ms
Loss rate: 0.05%
```

Run 4: Report of PCC-Allegro — Data Link

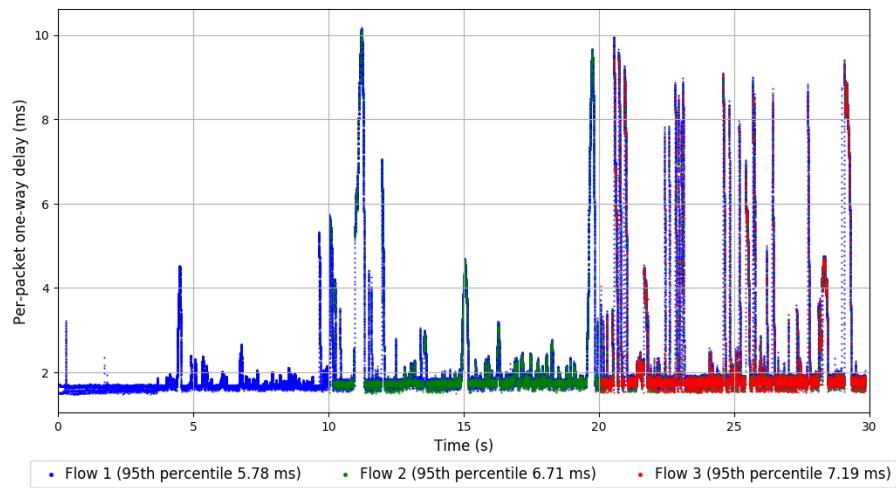
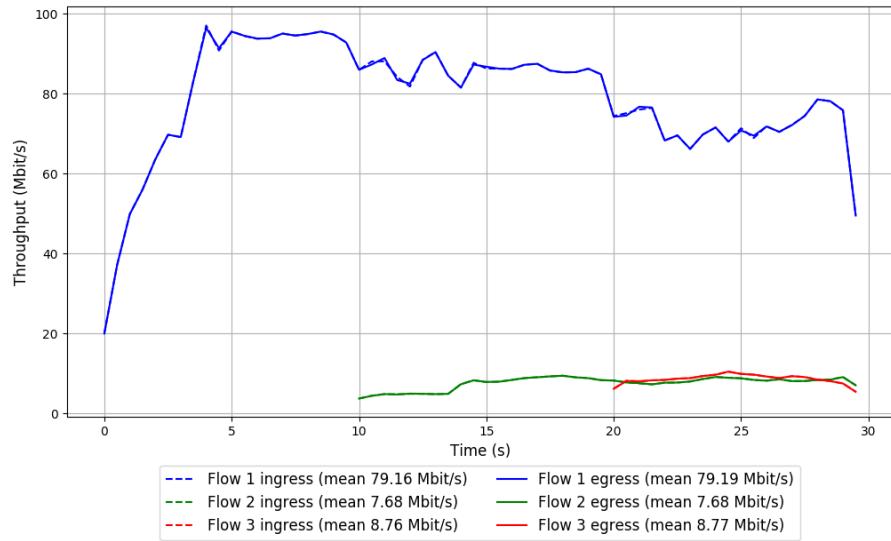


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-24 18:27:25
End at: 2018-04-24 18:27:55
Local clock offset: 1.004 ms
Remote clock offset: -5.317 ms

# Below is generated by plot.py at 2018-04-24 23:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.18 Mbit/s
95th percentile per-packet one-way delay: 5.926 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 79.19 Mbit/s
95th percentile per-packet one-way delay: 5.778 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 6.715 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 7.186 ms
Loss rate: 0.03%
```

Run 5: Report of PCC-Allegro — Data Link

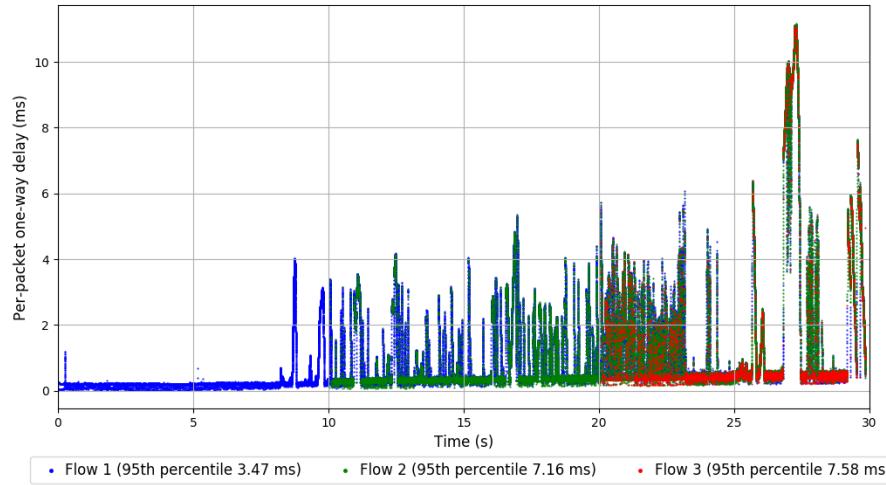
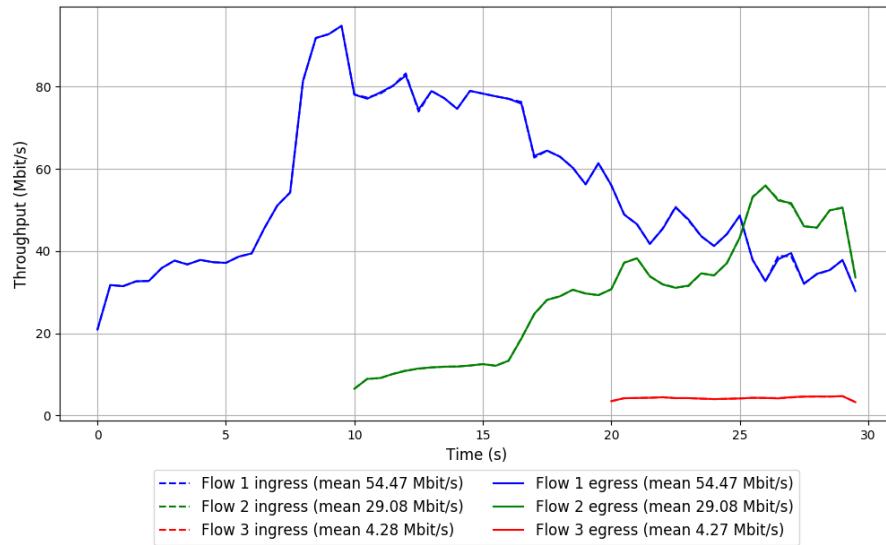


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-24 18:46:35
End at: 2018-04-24 18:47:05
Local clock offset: -1.479 ms
Remote clock offset: -5.423 ms

# Below is generated by plot.py at 2018-04-24 23:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.20 Mbit/s
95th percentile per-packet one-way delay: 4.218 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.47 Mbit/s
95th percentile per-packet one-way delay: 3.474 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 7.161 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 7.575 ms
Loss rate: 0.03%
```

Run 6: Report of PCC-Allegro — Data Link

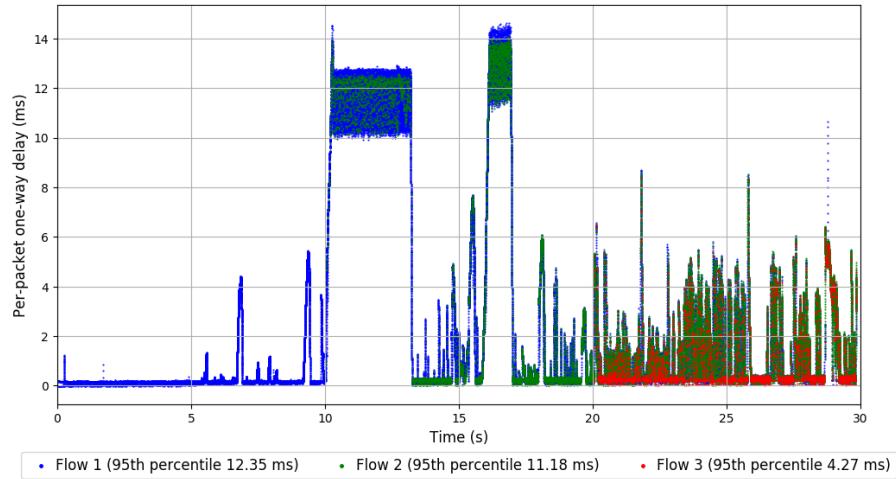
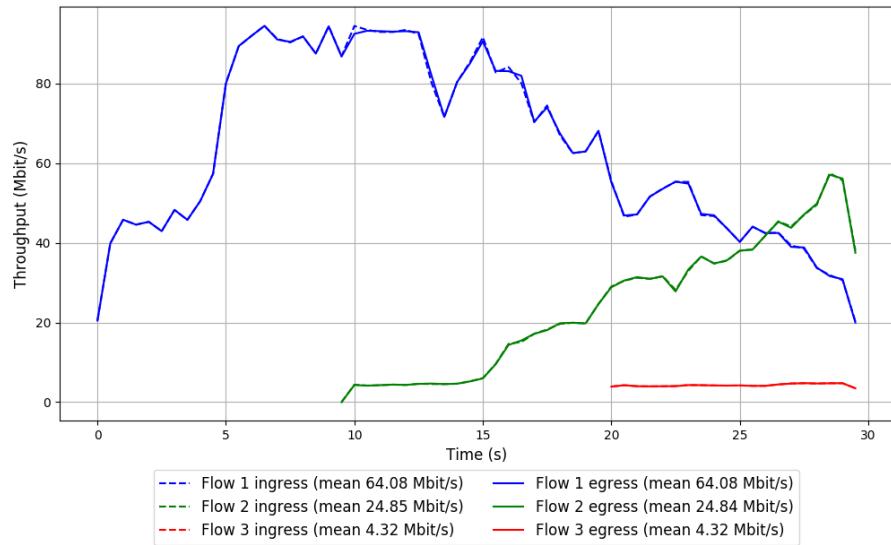


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-24 19:05:45
End at: 2018-04-24 19:06:15
Local clock offset: -6.42 ms
Remote clock offset: -5.289 ms

# Below is generated by plot.py at 2018-04-24 23:28:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.01 Mbit/s
95th percentile per-packet one-way delay: 12.265 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 12.345 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 11.177 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 4.267 ms
Loss rate: 0.03%
```

Run 7: Report of PCC-Allegro — Data Link

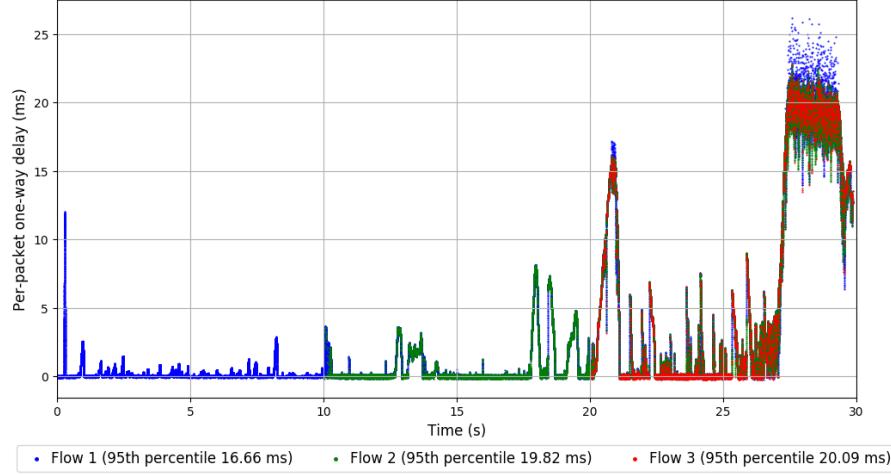
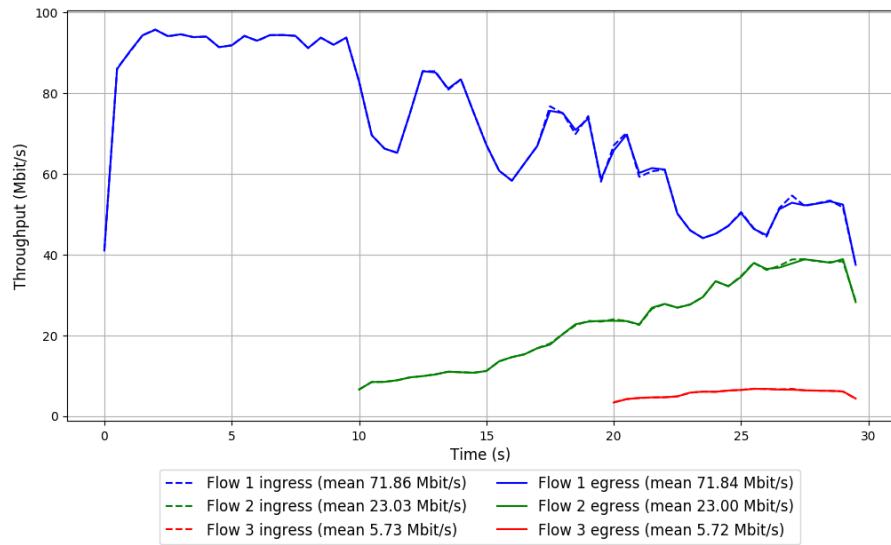


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-24 19:24:55
End at: 2018-04-24 19:25:25
Local clock offset: -7.049 ms
Remote clock offset: -5.474 ms

# Below is generated by plot.py at 2018-04-24 23:28:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.00 Mbit/s
95th percentile per-packet one-way delay: 18.838 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 71.84 Mbit/s
95th percentile per-packet one-way delay: 16.665 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 19.821 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 20.090 ms
Loss rate: 0.15%
```

Run 8: Report of PCC-Allegro — Data Link

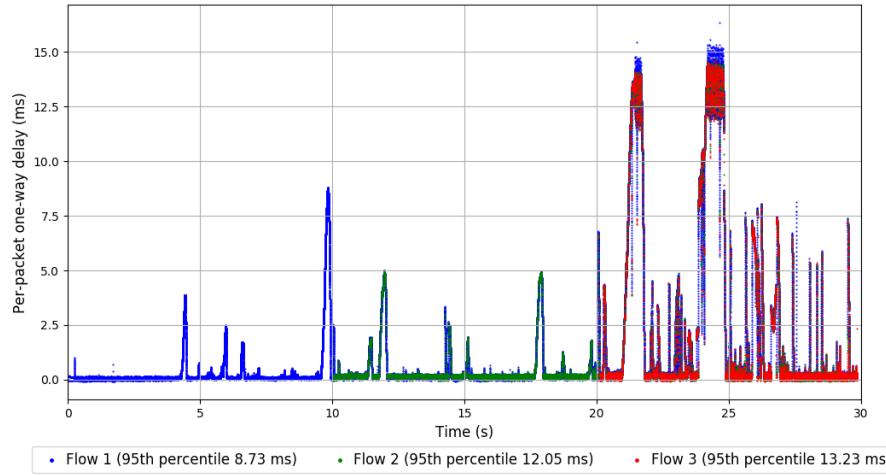
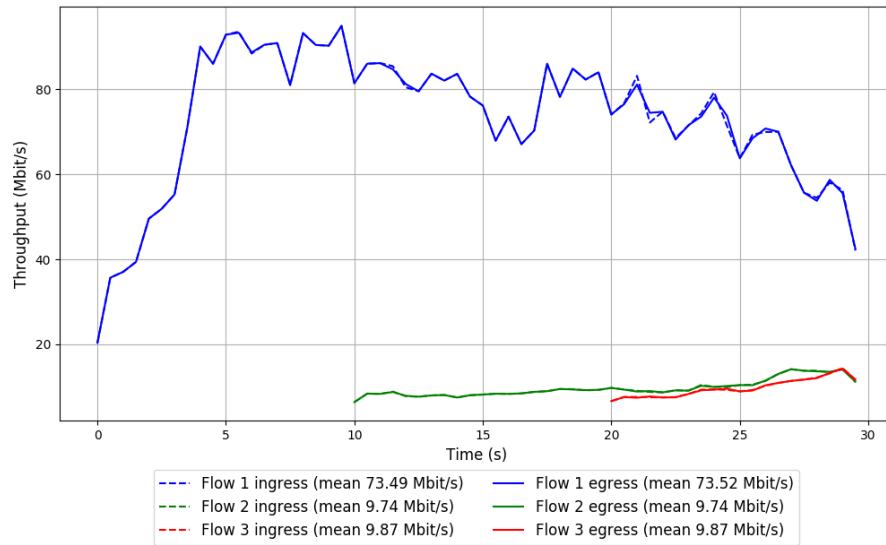


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-24 19:44:05
End at: 2018-04-24 19:44:35
Local clock offset: -6.052 ms
Remote clock offset: -5.478 ms

# Below is generated by plot.py at 2018-04-24 23:28:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.23 Mbit/s
95th percentile per-packet one-way delay: 9.862 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 73.52 Mbit/s
95th percentile per-packet one-way delay: 8.728 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 12.053 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 13.227 ms
Loss rate: 0.05%
```

Run 9: Report of PCC-Allegro — Data Link

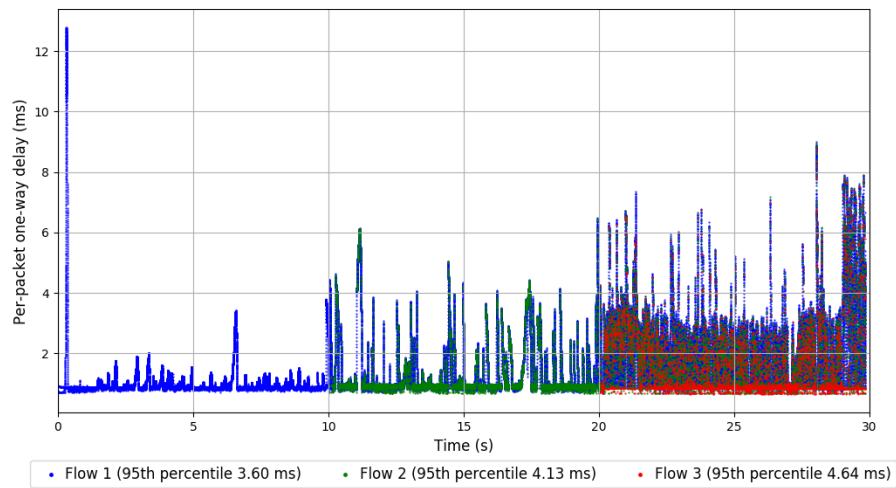
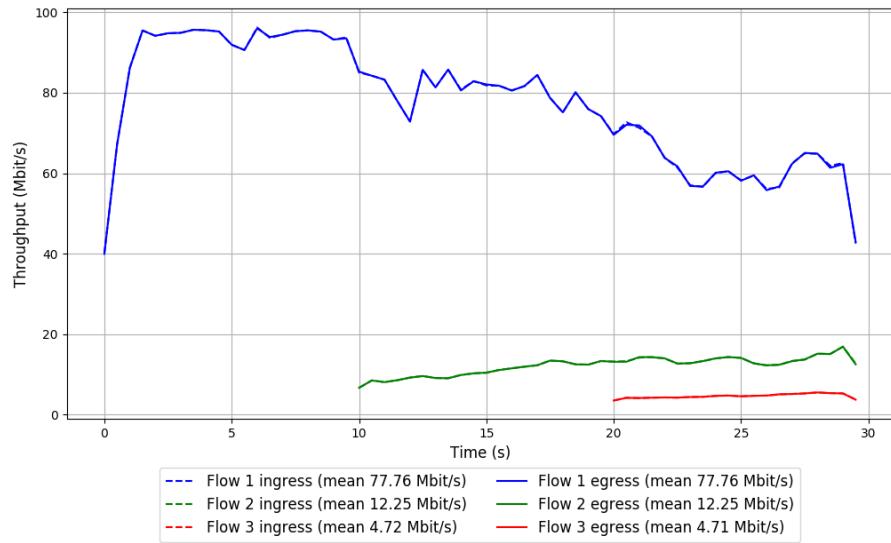


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-24 20:03:15
End at: 2018-04-24 20:03:45
Local clock offset: -5.056 ms
Remote clock offset: -7.117 ms

# Below is generated by plot.py at 2018-04-24 23:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 3.662 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 3.596 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 4.134 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 4.638 ms
Loss rate: 0.08%
```

Run 10: Report of PCC-Allegro — Data Link

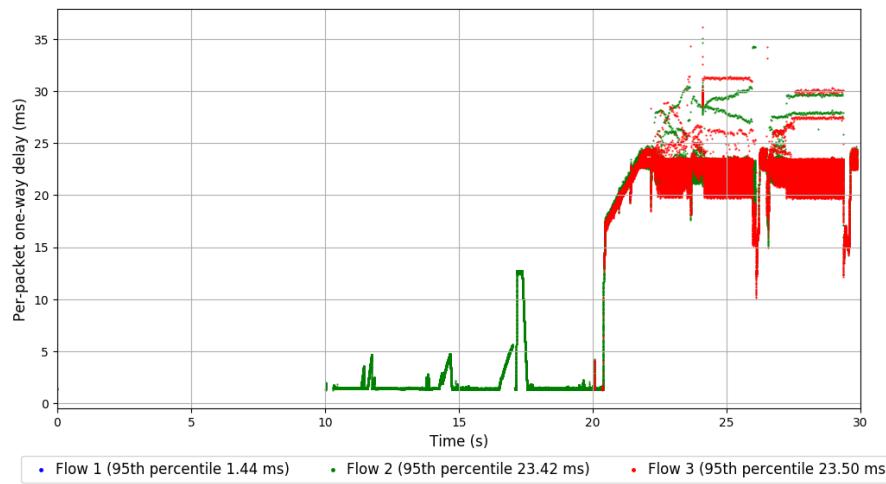
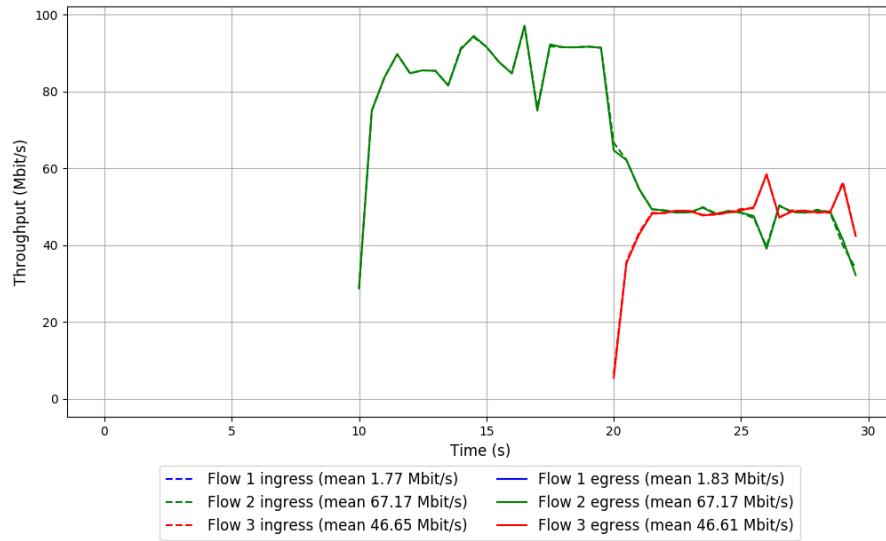


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 17:11:58
End at: 2018-04-24 17:12:28
Local clock offset: -1.182 ms
Remote clock offset: -6.732 ms

# Below is generated by plot.py at 2018-04-24 23:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.05 Mbit/s
95th percentile per-packet one-way delay: 23.448 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 1.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.17 Mbit/s
95th percentile per-packet one-way delay: 23.418 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 23.505 ms
Loss rate: 0.26%
```

Run 1: Report of QUIC Cubic — Data Link

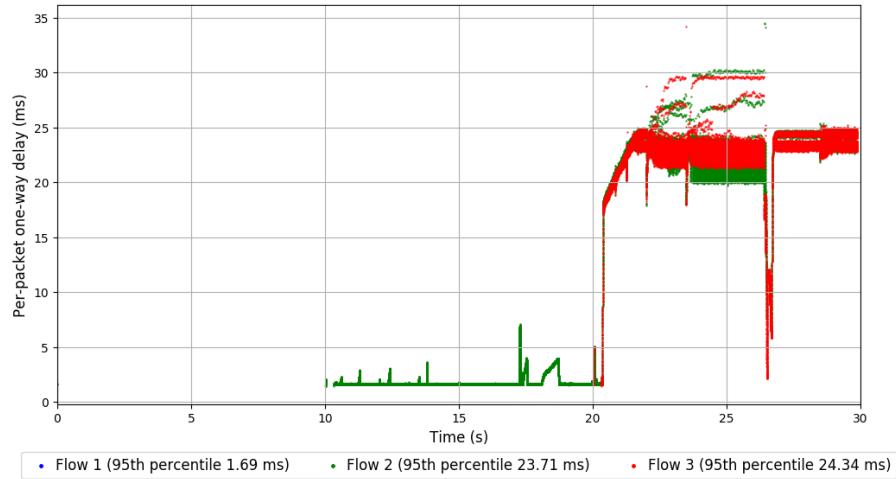
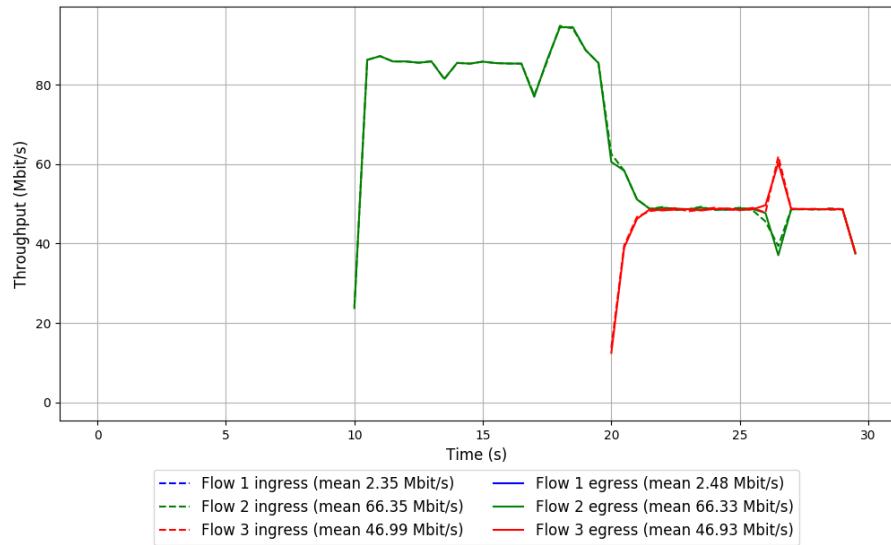


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-24 17:31:08
End at: 2018-04-24 17:31:38
Local clock offset: 1.752 ms
Remote clock offset: -6.571 ms

# Below is generated by plot.py at 2018-04-24 23:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 23.757 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 1.689 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.33 Mbit/s
95th percentile per-packet one-way delay: 23.713 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 46.93 Mbit/s
95th percentile per-packet one-way delay: 24.341 ms
Loss rate: 0.25%
```

Run 2: Report of QUIC Cubic — Data Link

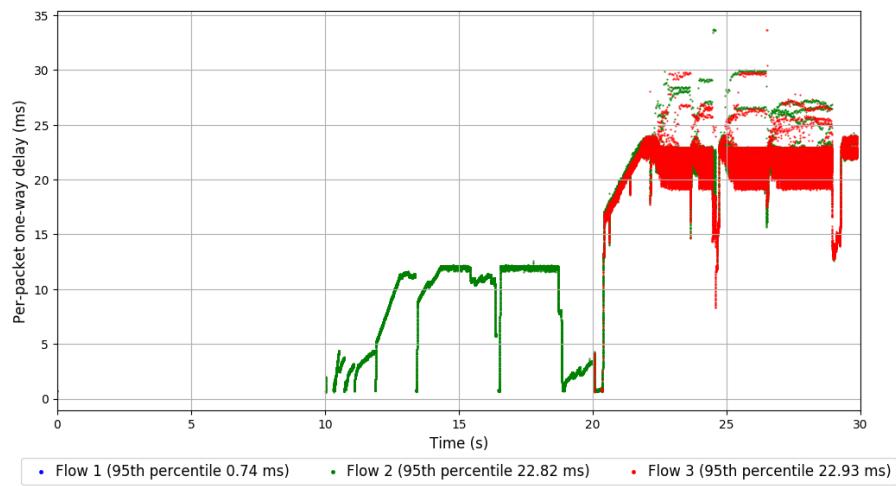
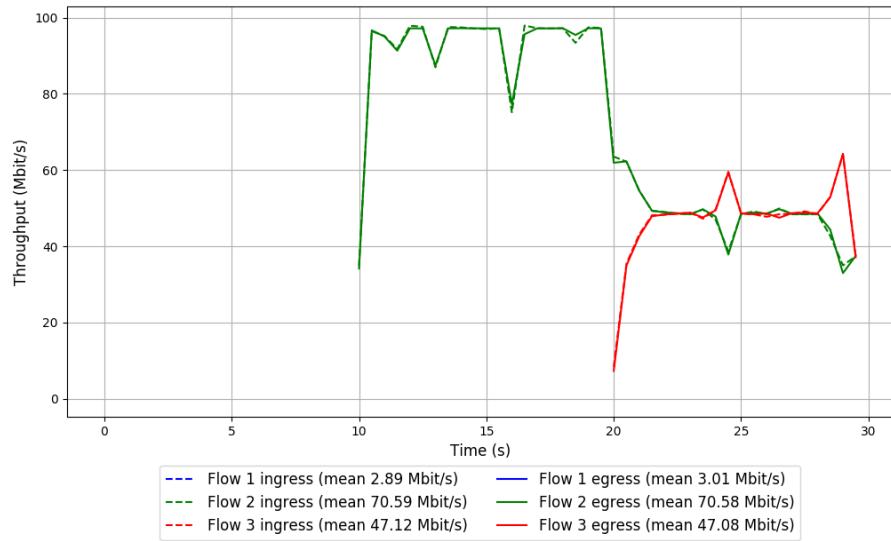


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-24 17:50:15
End at: 2018-04-24 17:50:45
Local clock offset: 2.454 ms
Remote clock offset: -5.788 ms

# Below is generated by plot.py at 2018-04-24 23:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.47 Mbit/s
95th percentile per-packet one-way delay: 22.854 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 0.740 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 22.824 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 47.08 Mbit/s
95th percentile per-packet one-way delay: 22.931 ms
Loss rate: 0.28%
```

Run 3: Report of QUIC Cubic — Data Link

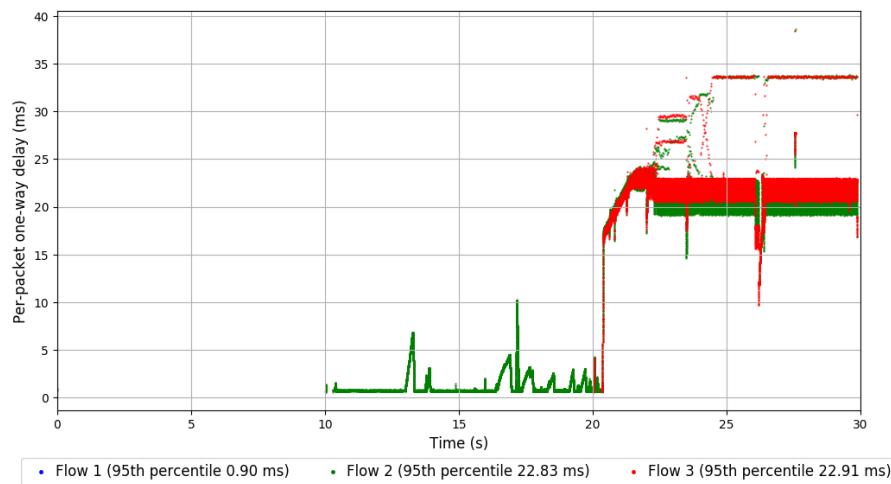
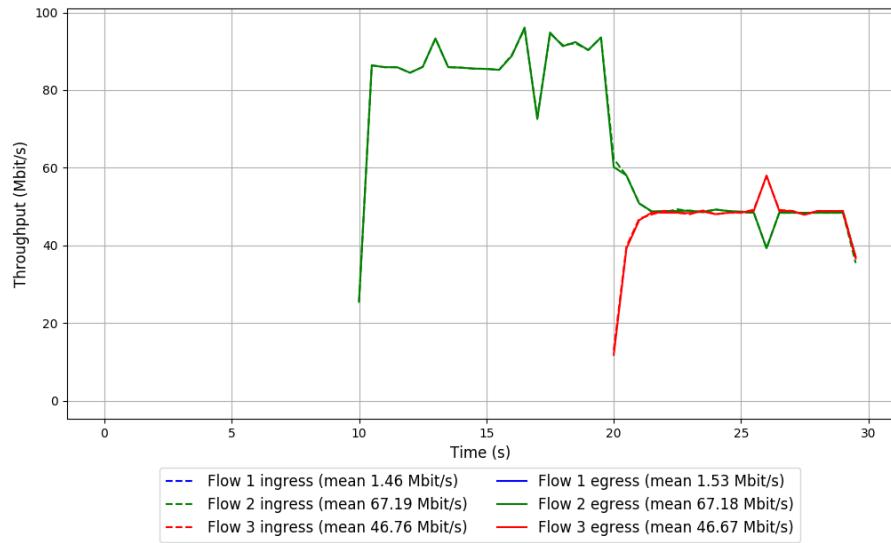


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-24 18:09:22
End at: 2018-04-24 18:09:52
Local clock offset: 3.816 ms
Remote clock offset: -5.569 ms

# Below is generated by plot.py at 2018-04-24 23:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 22.869 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 0.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.18 Mbit/s
95th percentile per-packet one-way delay: 22.826 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 46.67 Mbit/s
95th percentile per-packet one-way delay: 22.913 ms
Loss rate: 0.27%
```

Run 4: Report of QUIC Cubic — Data Link

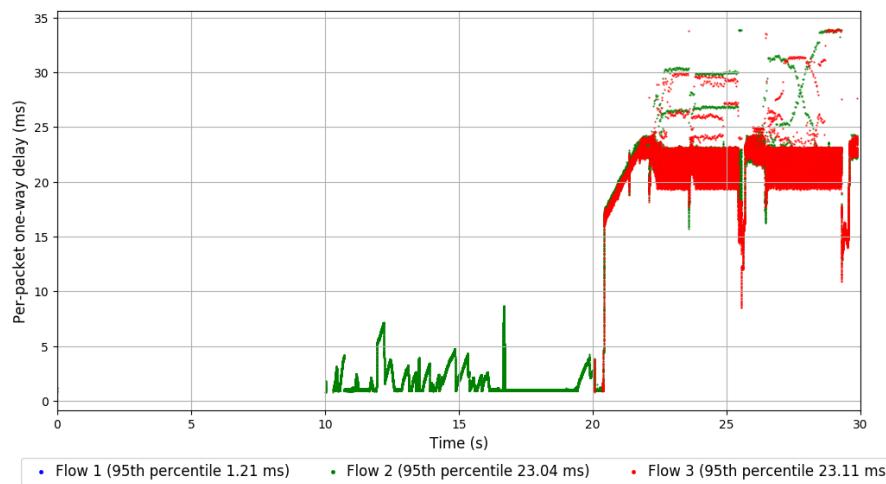
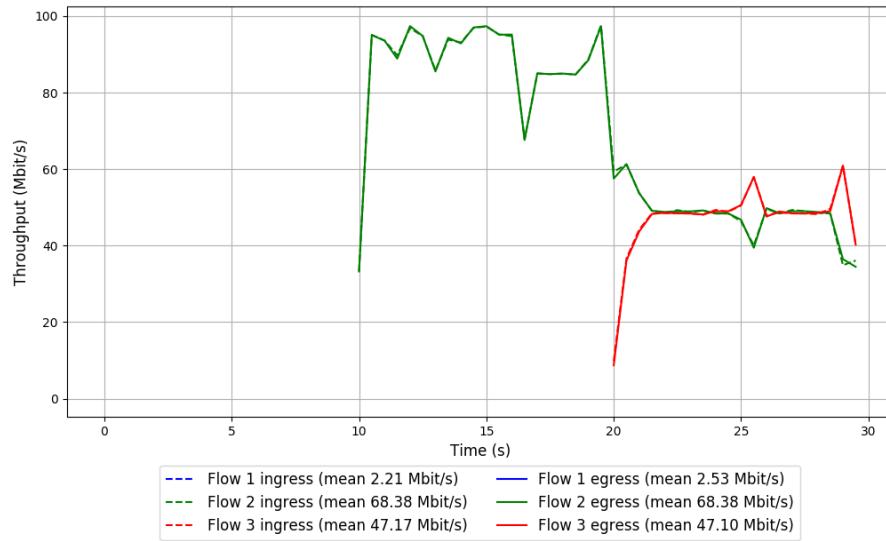


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-24 18:28:32
End at: 2018-04-24 18:29:02
Local clock offset: 0.144 ms
Remote clock offset: -5.304 ms

# Below is generated by plot.py at 2018-04-24 23:29:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 23.067 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.38 Mbit/s
95th percentile per-packet one-way delay: 23.044 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 23.109 ms
Loss rate: 0.25%
```

Run 5: Report of QUIC Cubic — Data Link

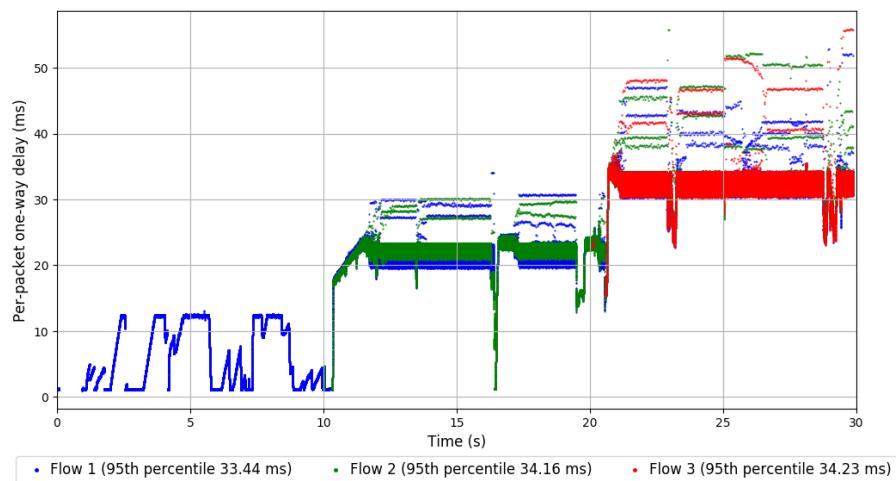
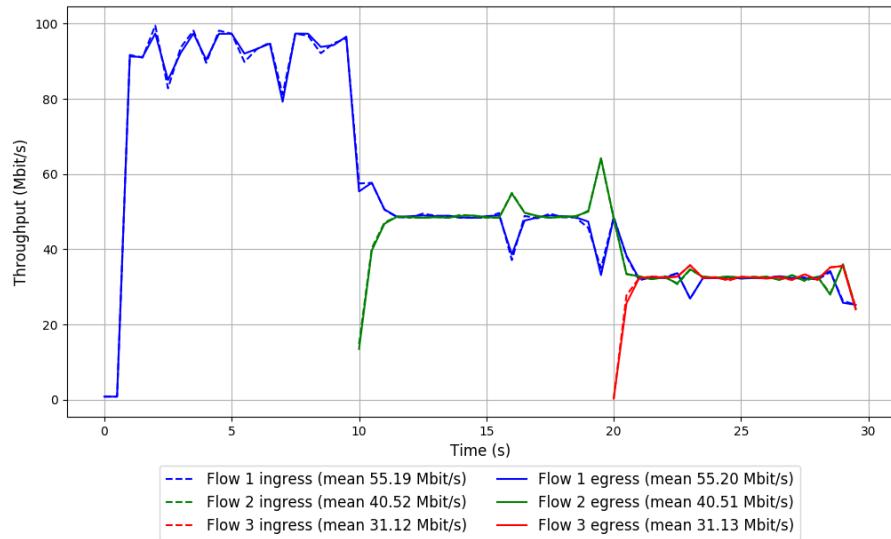


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-24 18:47:42
End at: 2018-04-24 18:48:12
Local clock offset: -1.137 ms
Remote clock offset: -5.434 ms

# Below is generated by plot.py at 2018-04-24 23:30:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 34.127 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 55.20 Mbit/s
95th percentile per-packet one-way delay: 33.437 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 34.165 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 34.226 ms
Loss rate: 0.45%
```

Run 6: Report of QUIC Cubic — Data Link

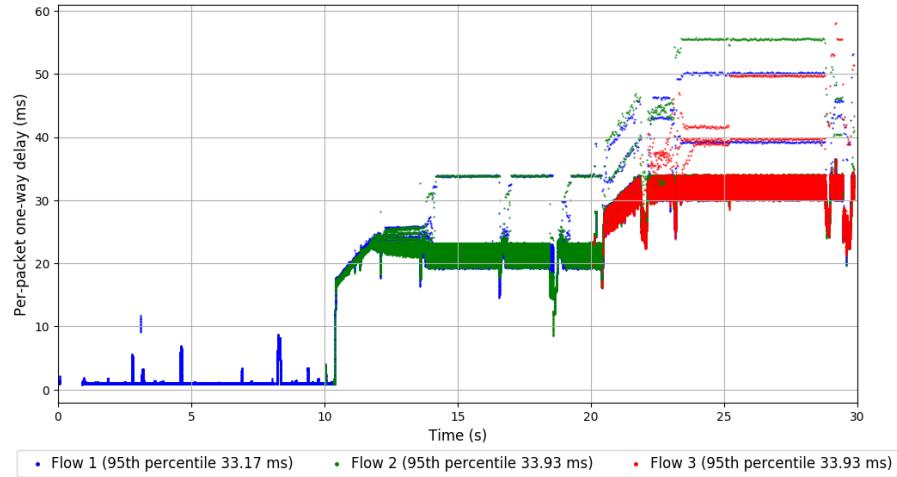
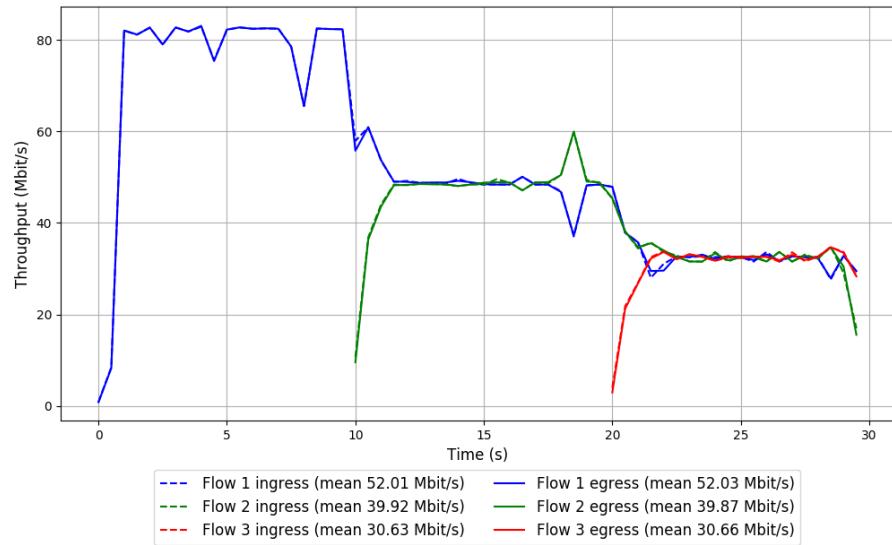


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-24 19:06:51
End at: 2018-04-24 19:07:21
Local clock offset: -5.753 ms
Remote clock offset: -5.281 ms

# Below is generated by plot.py at 2018-04-24 23:30:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 33.857 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 33.173 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 33.928 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 33.928 ms
Loss rate: 0.39%
```

Run 7: Report of QUIC Cubic — Data Link

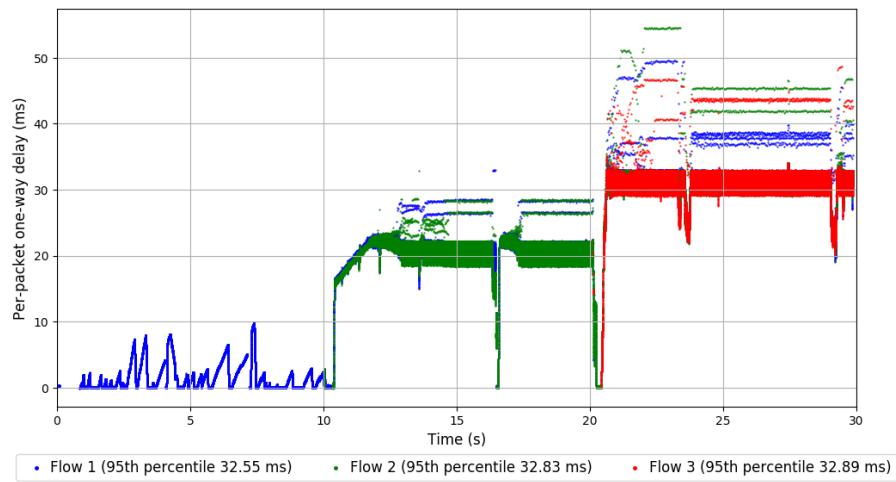
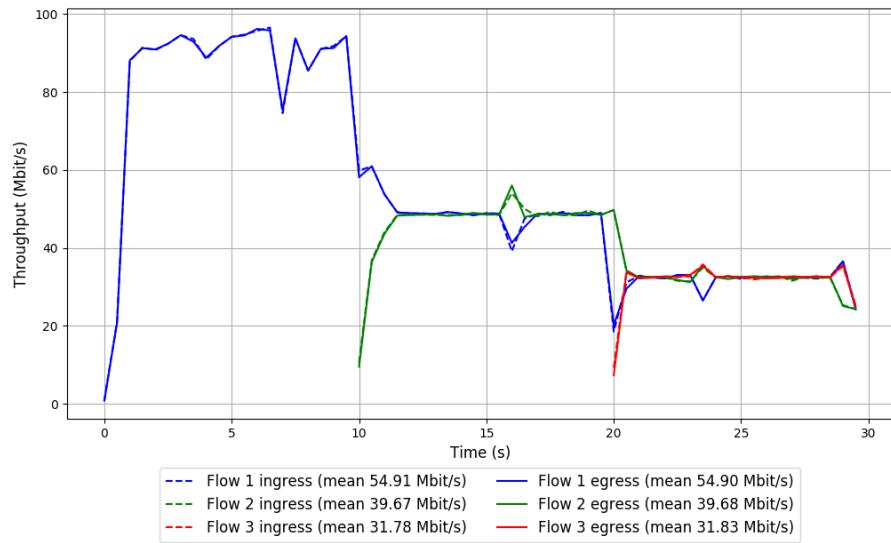


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-24 19:26:01
End at: 2018-04-24 19:26:31
Local clock offset: -6.857 ms
Remote clock offset: -5.483 ms

# Below is generated by plot.py at 2018-04-24 23:30:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 32.793 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 54.90 Mbit/s
95th percentile per-packet one-way delay: 32.548 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 32.829 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 32.893 ms
Loss rate: 0.34%
```

Run 8: Report of QUIC Cubic — Data Link

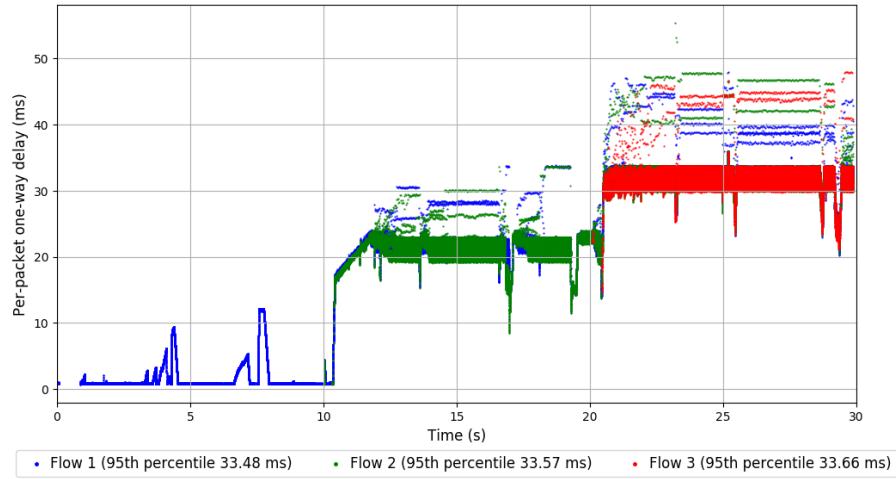
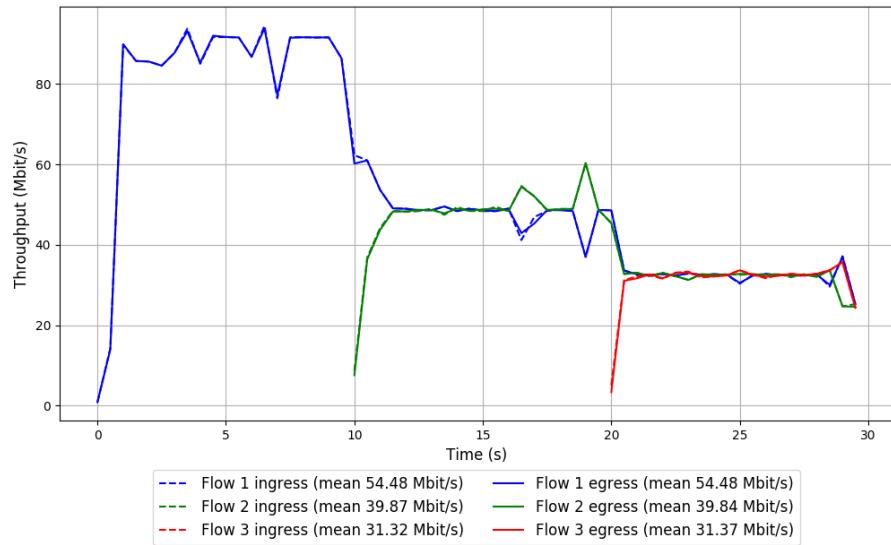


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-24 19:45:12
End at: 2018-04-24 19:45:42
Local clock offset: -5.3 ms
Remote clock offset: -5.534 ms

# Below is generated by plot.py at 2018-04-24 23:30:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 33.565 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 54.48 Mbit/s
95th percentile per-packet one-way delay: 33.478 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 33.568 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 33.658 ms
Loss rate: 0.35%
```

Run 9: Report of QUIC Cubic — Data Link

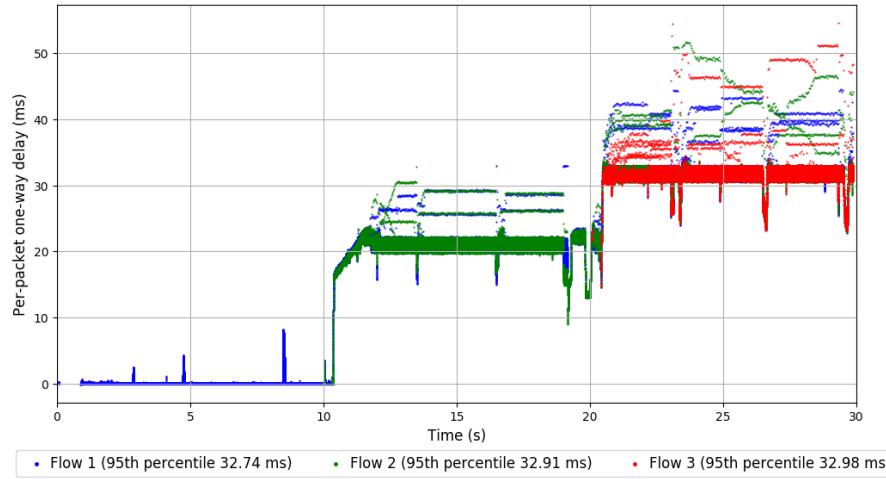
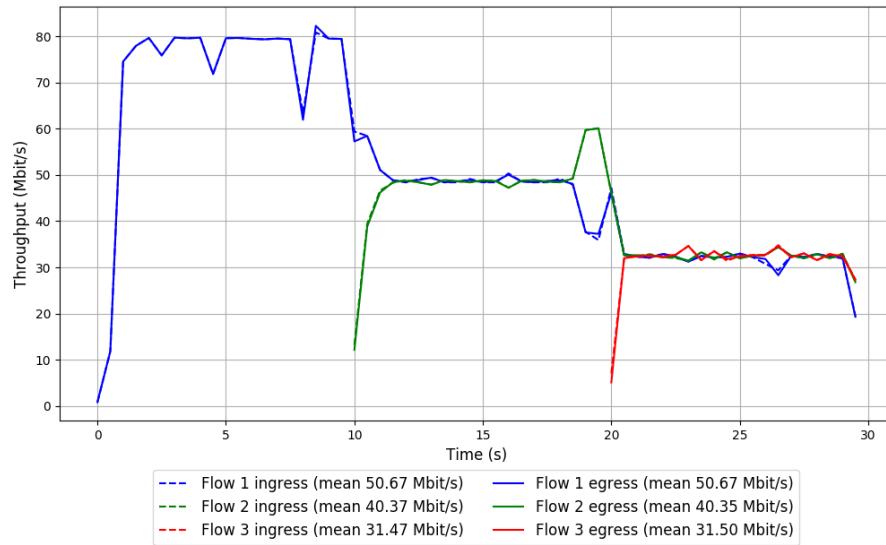


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-24 20:04:22
End at: 2018-04-24 20:04:52
Local clock offset: -5.864 ms
Remote clock offset: -7.158 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 32.893 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 32.741 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 32.911 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 32.975 ms
Loss rate: 0.35%
```

Run 10: Report of QUIC Cubic — Data Link

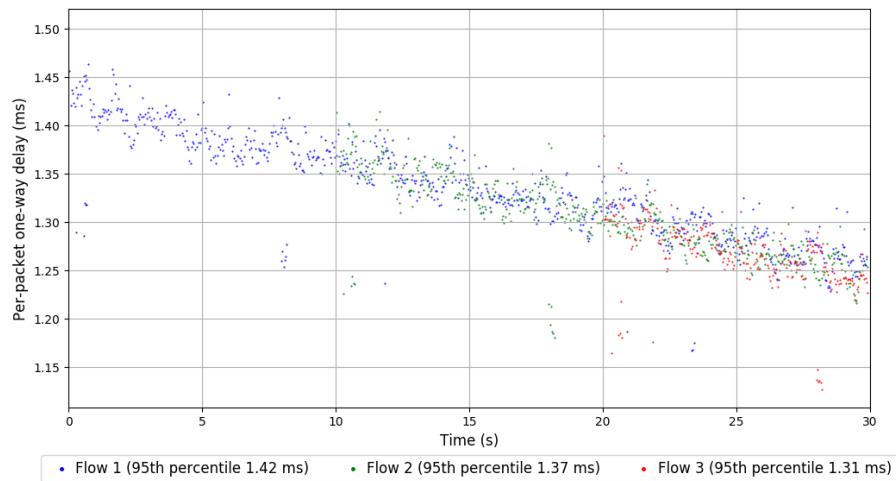
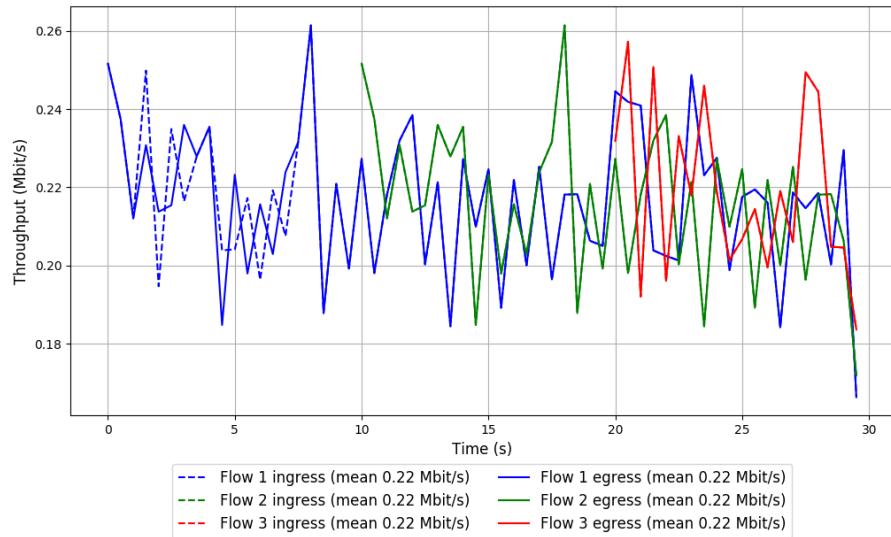


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 17:09:47
End at: 2018-04-24 17:10:17
Local clock offset: -1.832 ms
Remote clock offset: -6.675 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.371 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.313 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

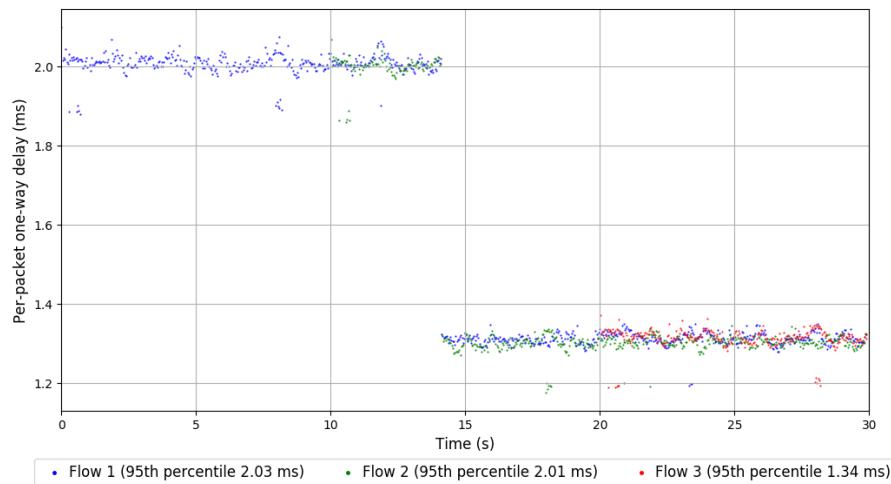
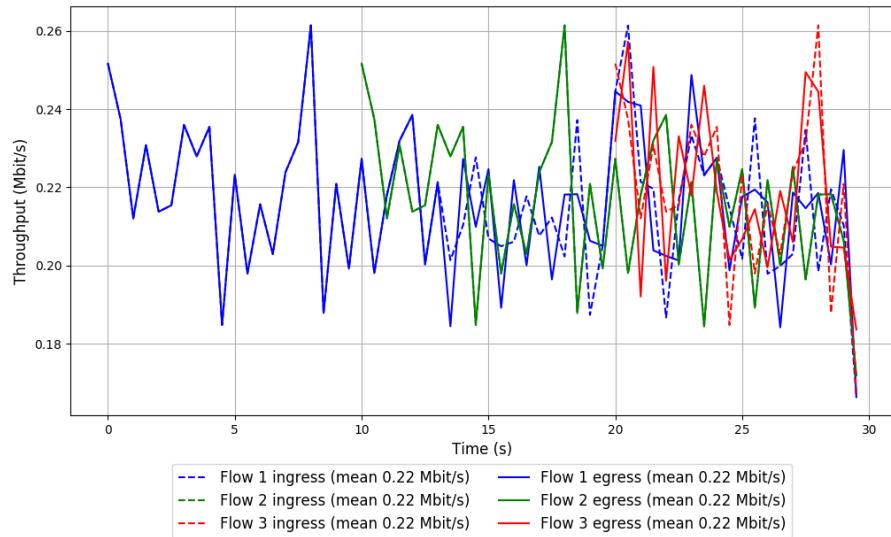


Run 2: Statistics of SCReAM

```
Start at: 2018-04-24 17:28:57
End at: 2018-04-24 17:29:27
Local clock offset: 1.198 ms
Remote clock offset: -6.849 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.024 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.031 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.013 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.341 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

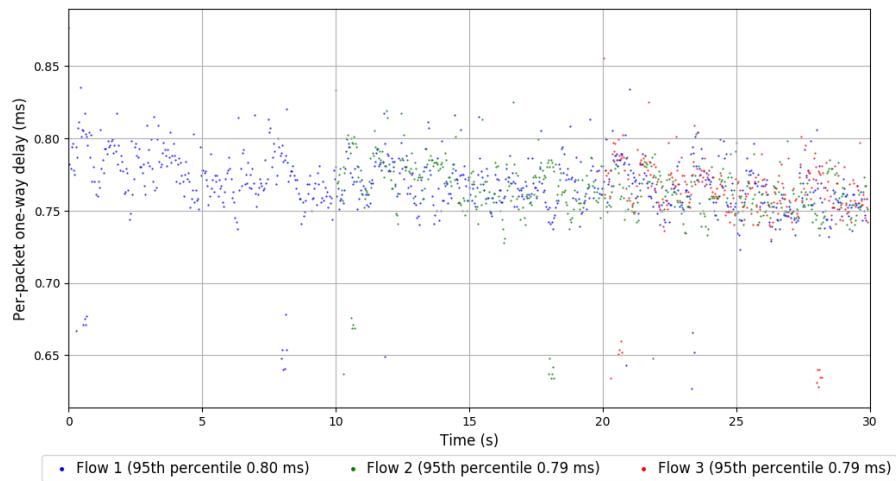
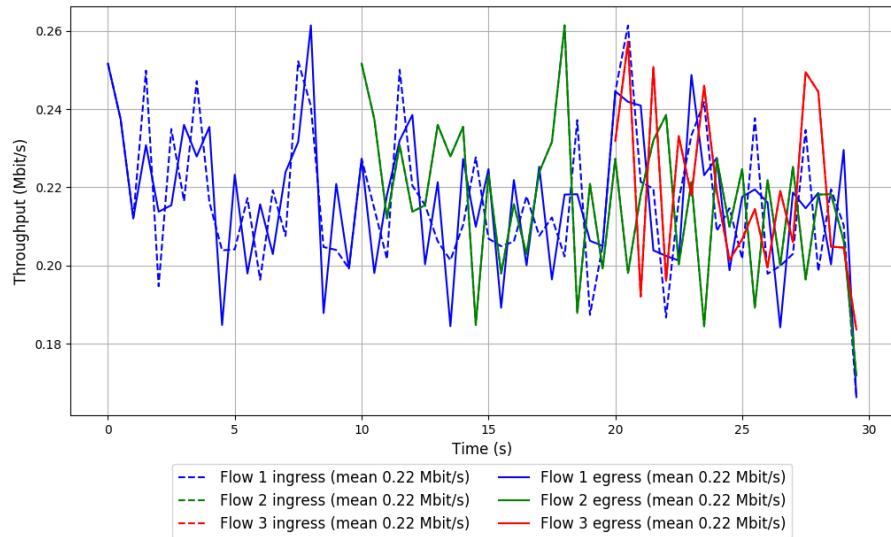


Run 3: Statistics of SCReAM

```
Start at: 2018-04-24 17:48:05
End at: 2018-04-24 17:48:35
Local clock offset: 2.263 ms
Remote clock offset: -5.899 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 0.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.801 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.792 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

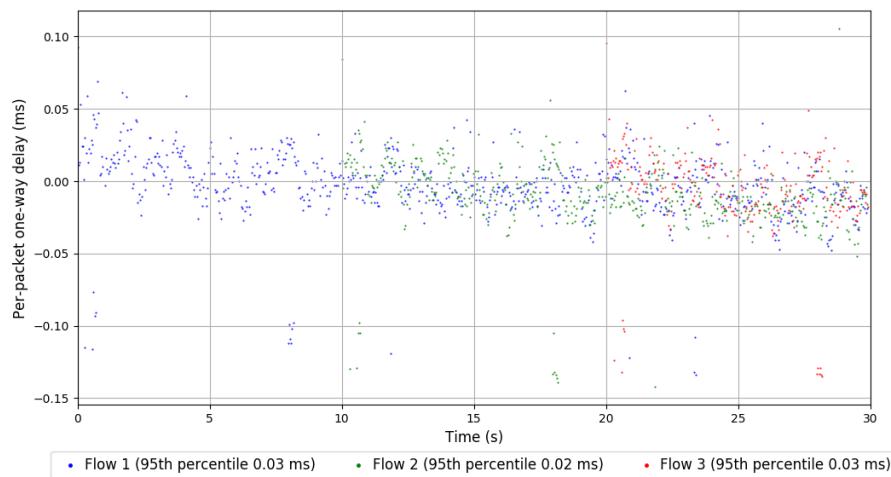
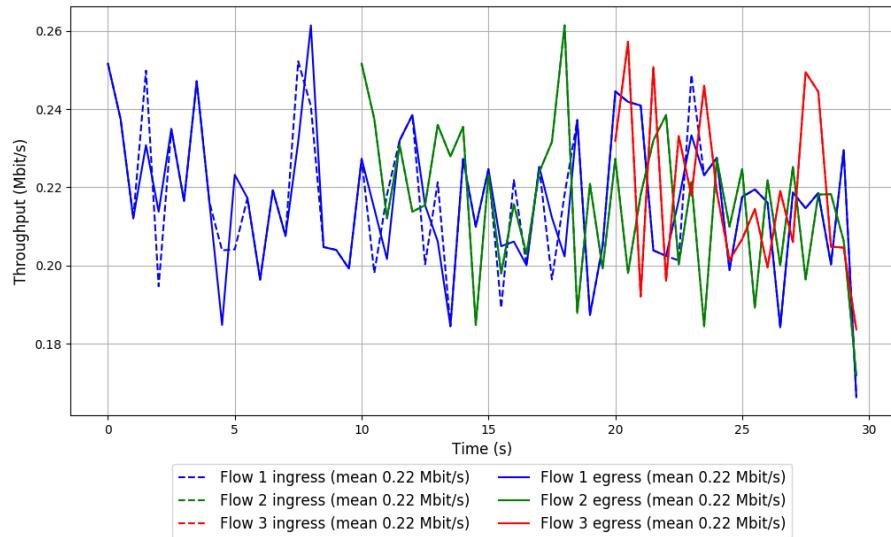


Run 4: Statistics of SCReAM

```
Start at: 2018-04-24 18:07:11
End at: 2018-04-24 18:07:41
Local clock offset: 2.916 ms
Remote clock offset: -5.609 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 0.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.022 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.026 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

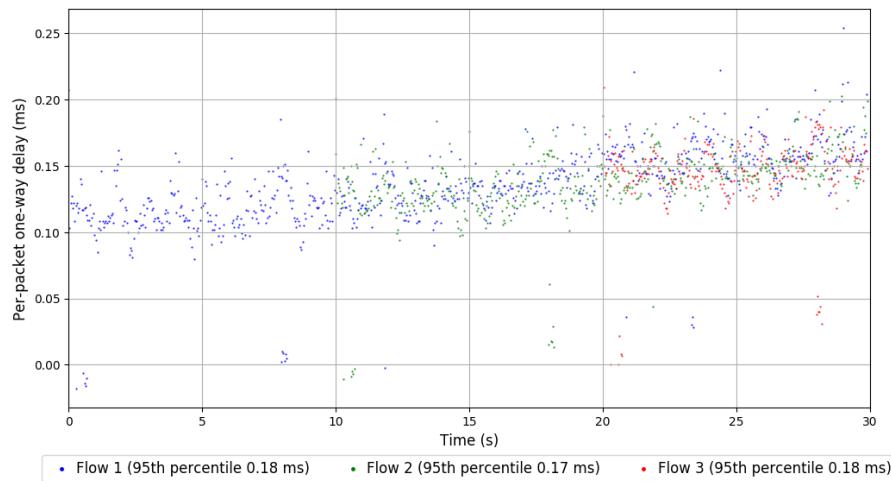
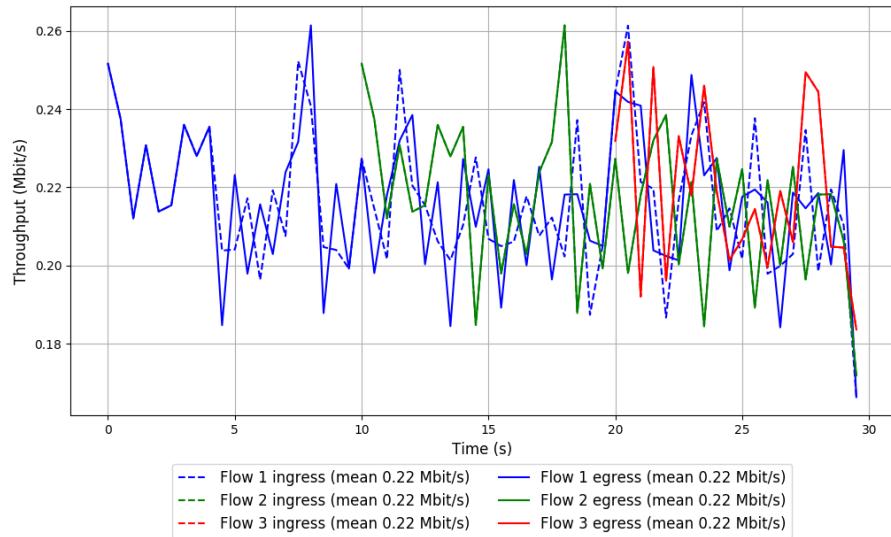


Run 5: Statistics of SCReAM

```
Start at: 2018-04-24 18:26:21
End at: 2018-04-24 18:26:51
Local clock offset: -0.44 ms
Remote clock offset: -5.338 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 0.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.176 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.174 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.176 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

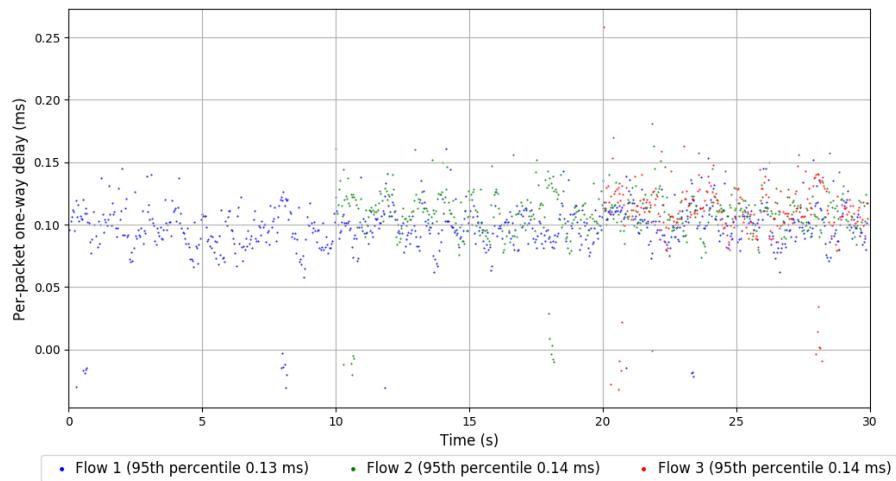
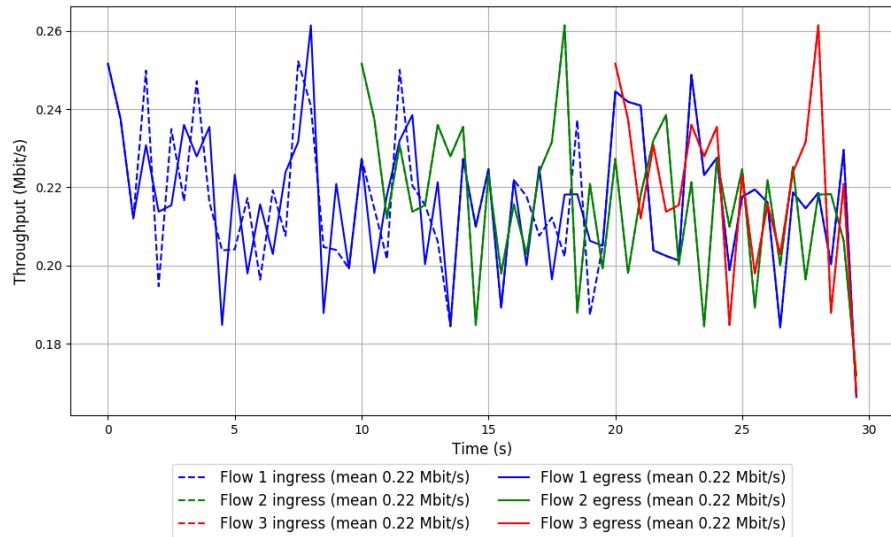


Run 6: Statistics of SCReAM

```
Start at: 2018-04-24 18:45:31
End at: 2018-04-24 18:46:01
Local clock offset: -1.475 ms
Remote clock offset: -5.359 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 0.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.127 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.140 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.140 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

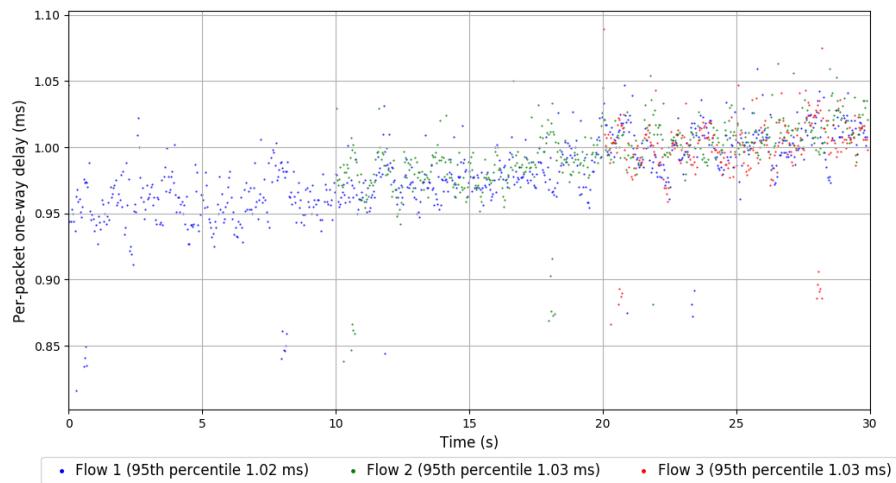
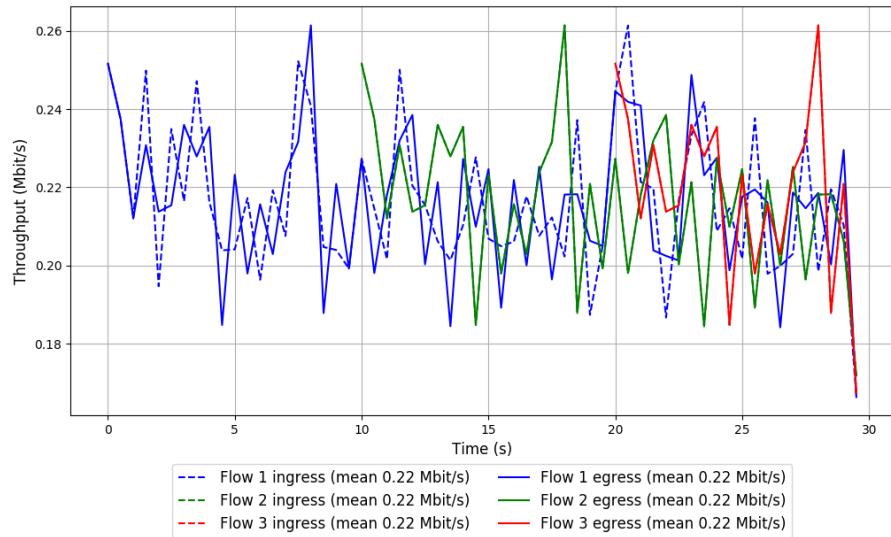


Run 7: Statistics of SCReAM

```
Start at: 2018-04-24 19:04:41
End at: 2018-04-24 19:05:11
Local clock offset: -5.476 ms
Remote clock offset: -5.292 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.022 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.030 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

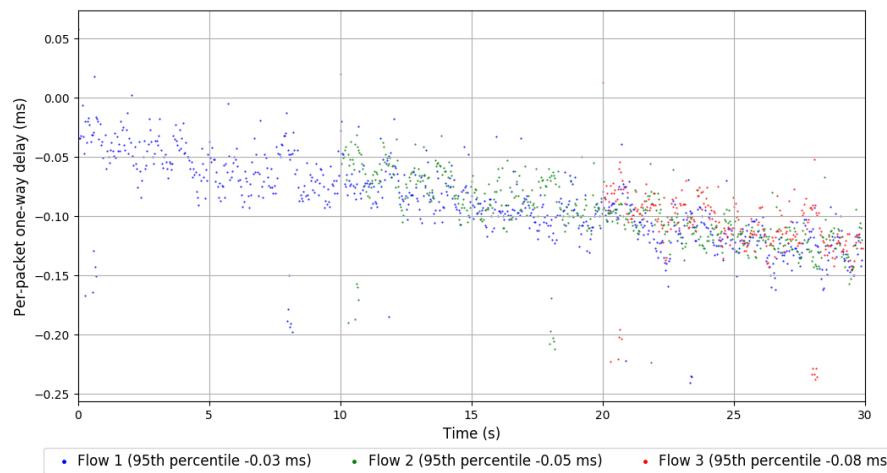
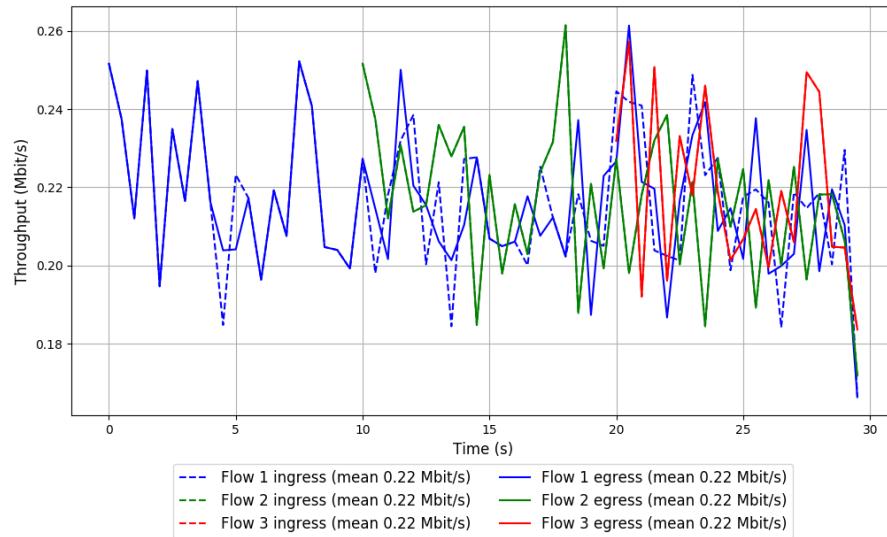


Run 8: Statistics of SCReAM

```
Start at: 2018-04-24 19:23:51
End at: 2018-04-24 19:24:21
Local clock offset: -7.281 ms
Remote clock offset: -5.459 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -0.039 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -0.032 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -0.053 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -0.076 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

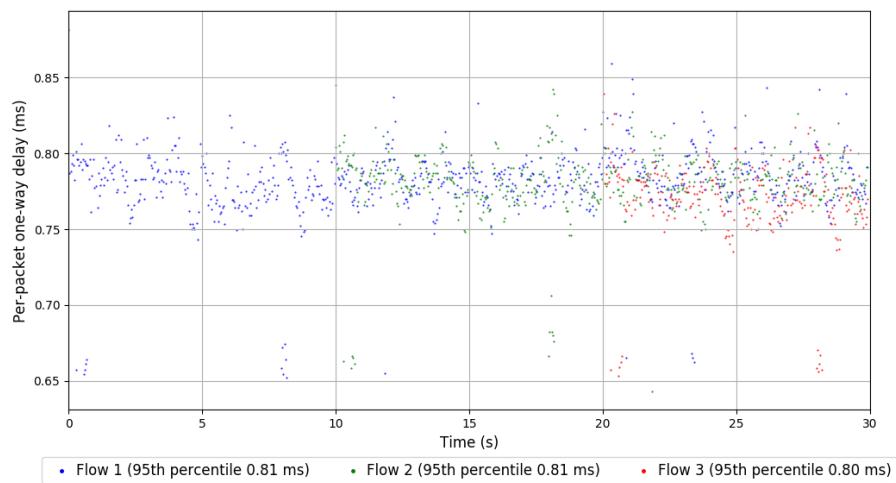
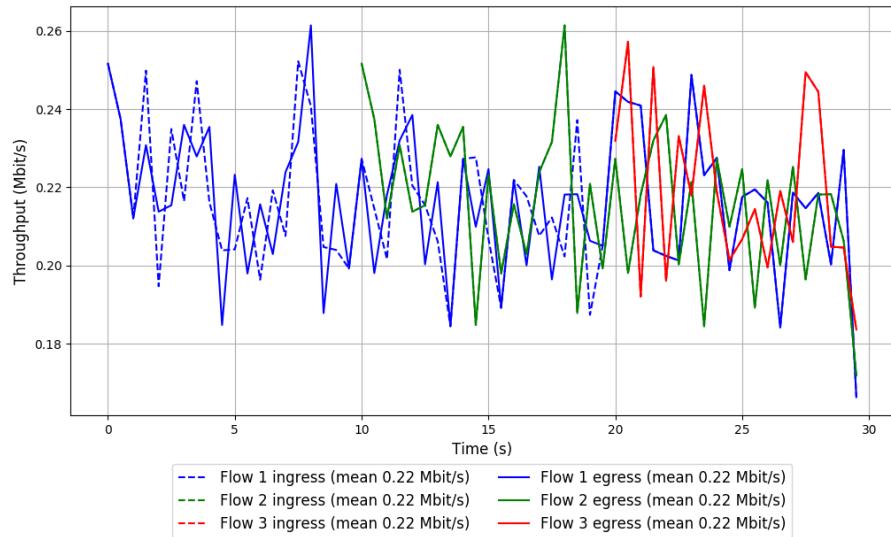


Run 9: Statistics of SCReAM

```
Start at: 2018-04-24 19:43:01
End at: 2018-04-24 19:43:31
Local clock offset: -5.357 ms
Remote clock offset: -5.476 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 0.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.808 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.802 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

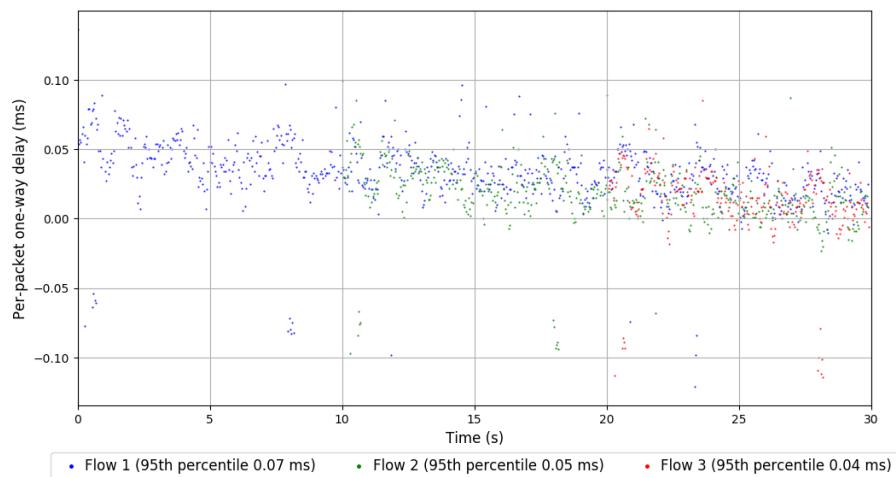
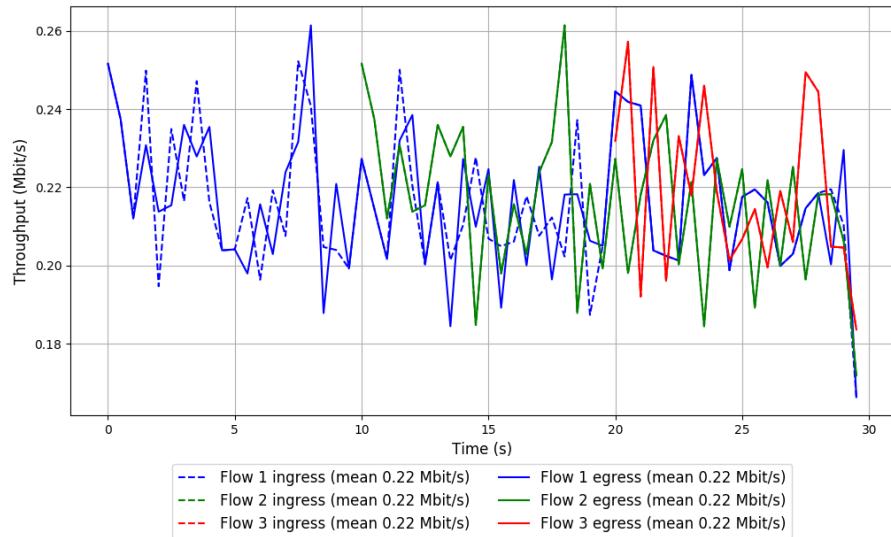


Run 10: Statistics of SCReAM

```
Start at: 2018-04-24 20:02:11
End at: 2018-04-24 20:02:41
Local clock offset: -5.869 ms
Remote clock offset: -7.064 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 0.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.048 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.043 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

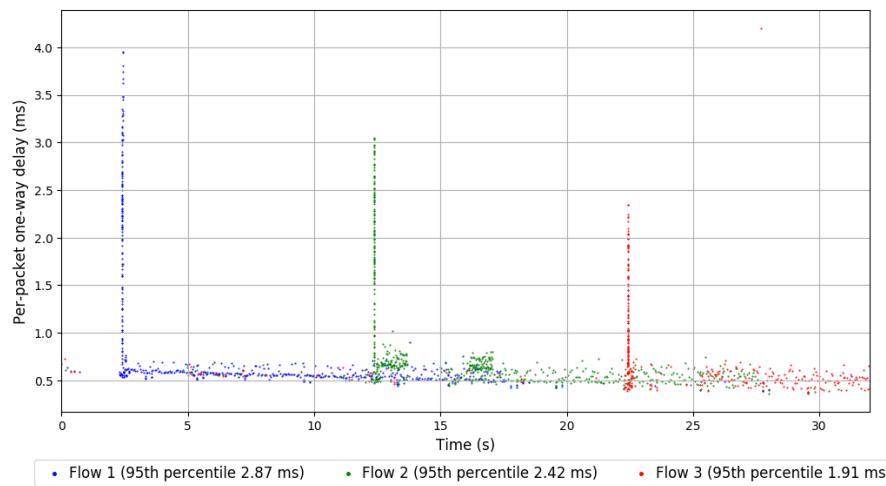
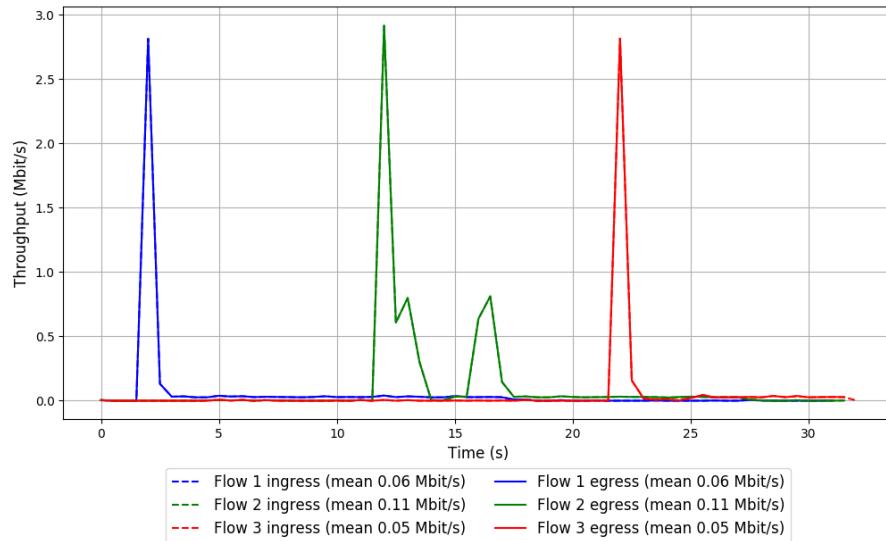


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 17:07:39
End at: 2018-04-24 17:08:09
Local clock offset: -3.33 ms
Remote clock offset: -6.643 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.443 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.873 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 2.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.912 ms
Loss rate: 0.08%
```

Run 1: Report of WebRTC media — Data Link

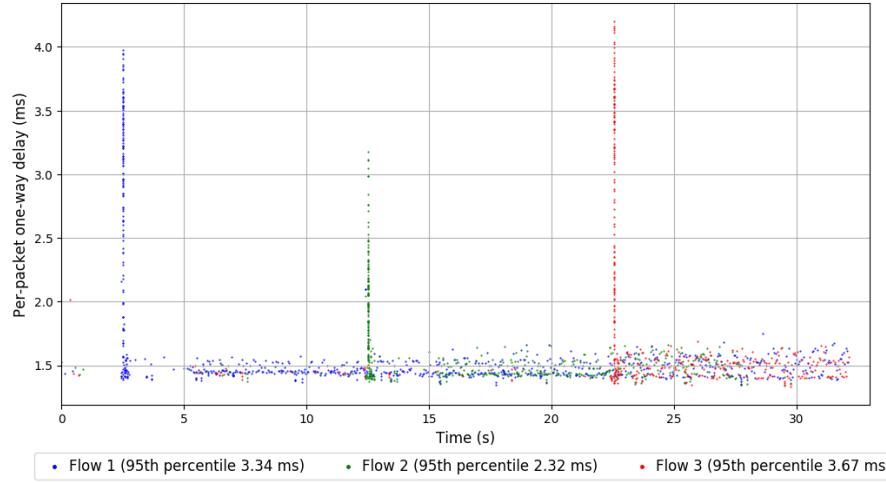
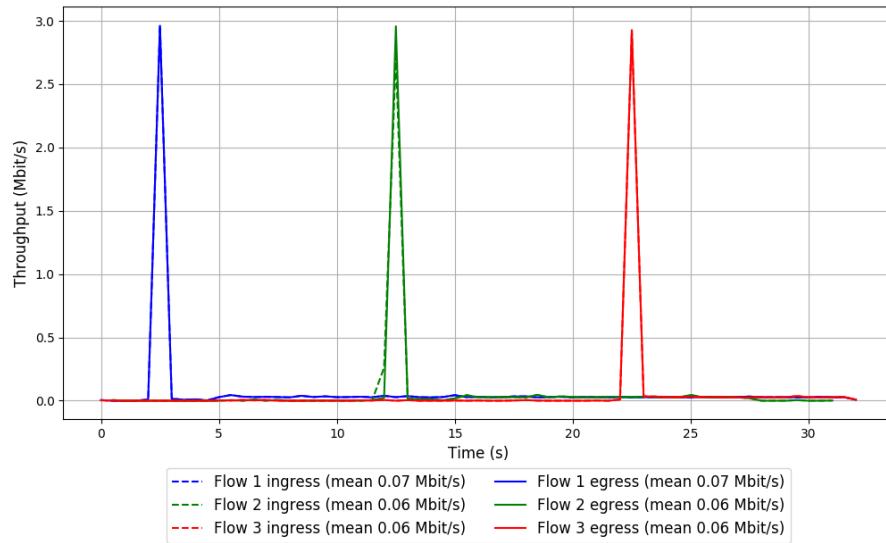


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-24 17:26:49
End at: 2018-04-24 17:27:19
Local clock offset: 1.313 ms
Remote clock offset: -6.856 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 3.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 3.336 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.319 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.673 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

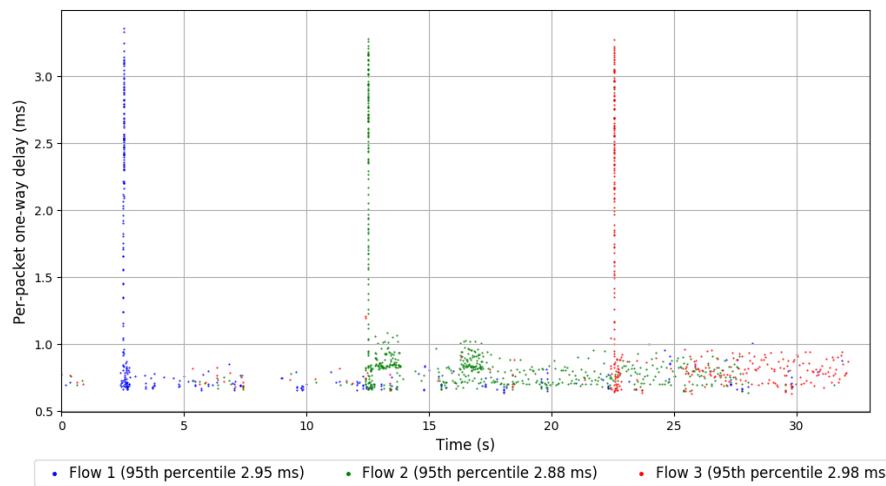
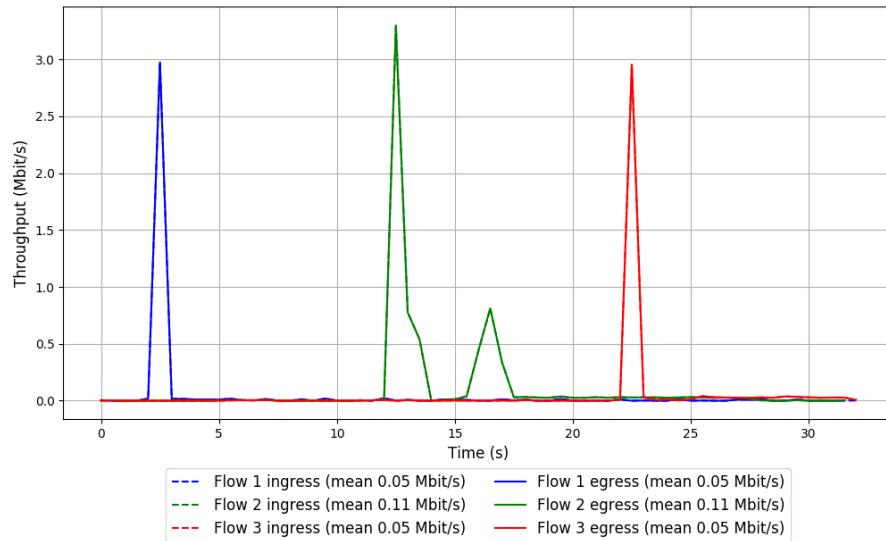


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-24 17:45:57
End at: 2018-04-24 17:46:27
Local clock offset: 2.189 ms
Remote clock offset: -5.882 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 2.940 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.953 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 2.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.985 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

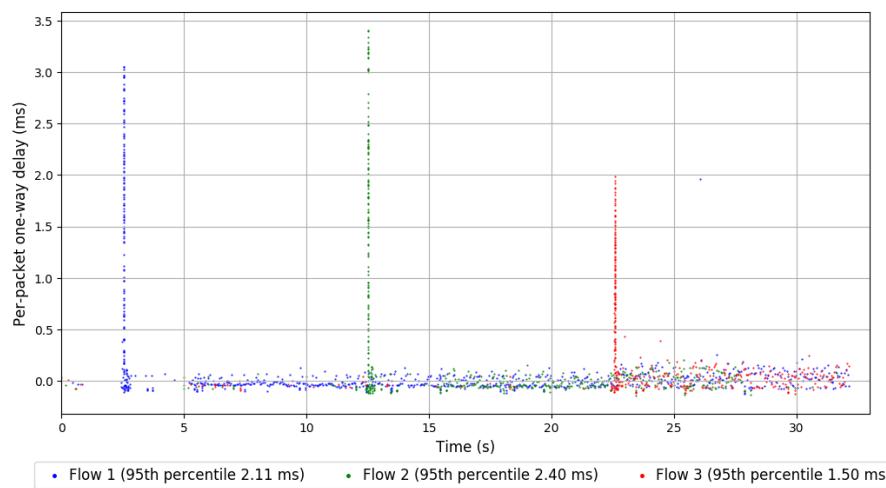
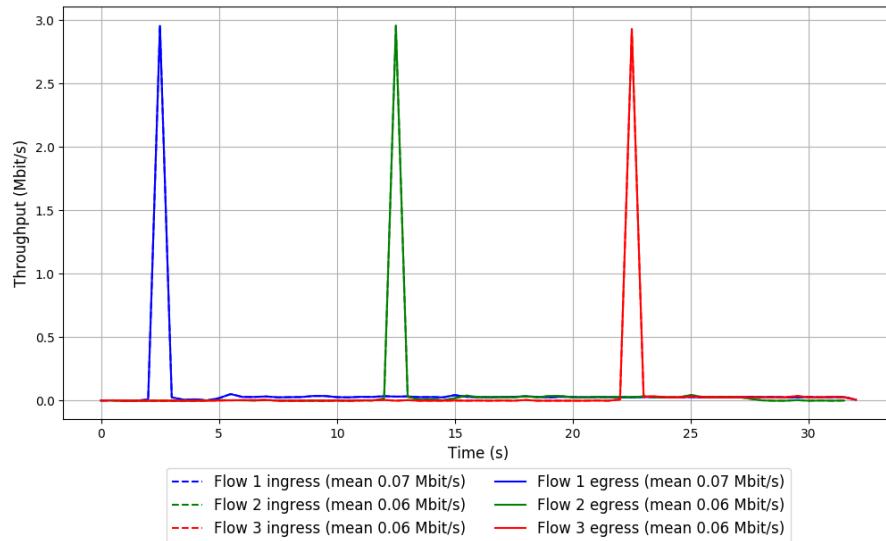


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-24 18:05:04
End at: 2018-04-24 18:05:34
Local clock offset: 2.798 ms
Remote clock offset: -5.636 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 2.058 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 2.107 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.397 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 1.496 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

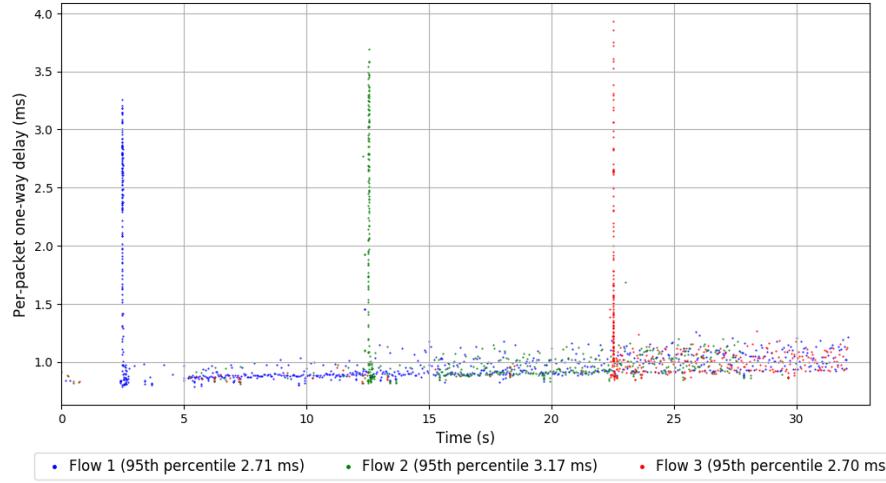
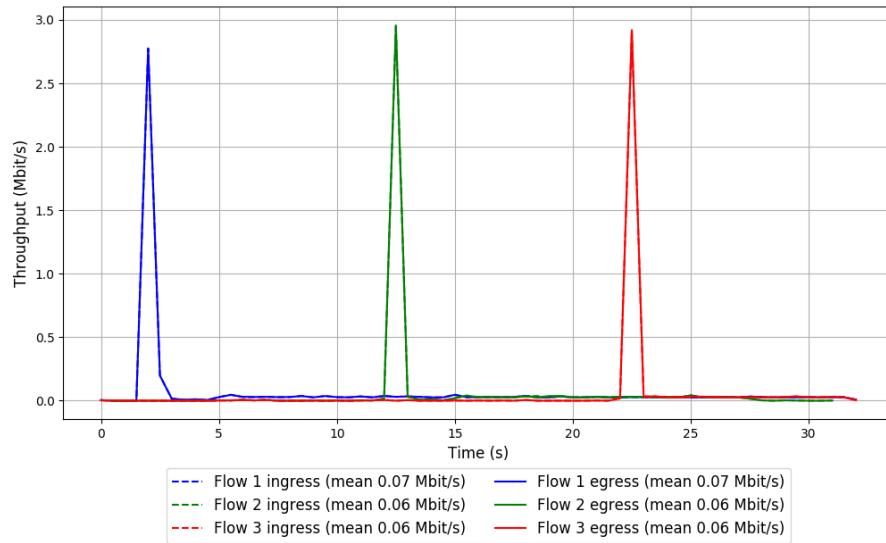


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-24 18:24:13
End at: 2018-04-24 18:24:43
Local clock offset: 0.692 ms
Remote clock offset: -5.362 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 2.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 2.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.171 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.702 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

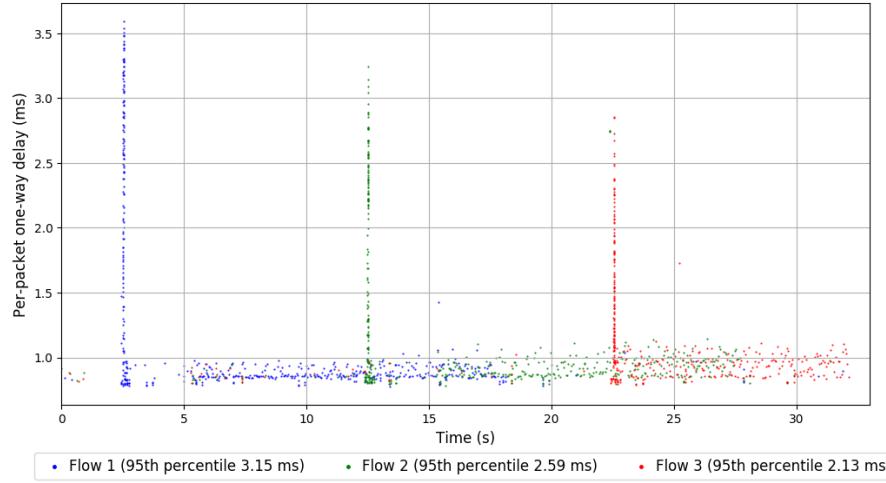
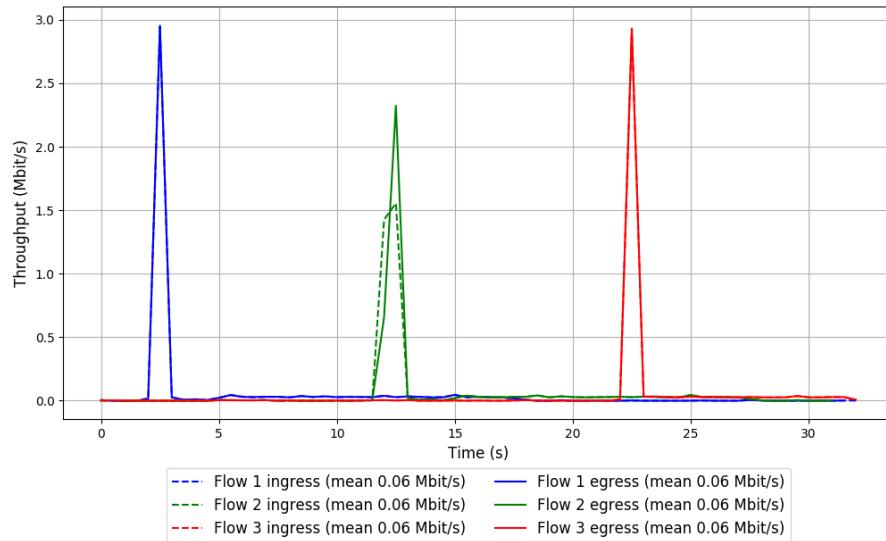


Run 6: Statistics of WebRTC media

```
Start at: 2018-04-24 18:43:23
End at: 2018-04-24 18:43:53
Local clock offset: -0.635 ms
Remote clock offset: -5.393 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 2.689 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.148 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.589 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.131 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

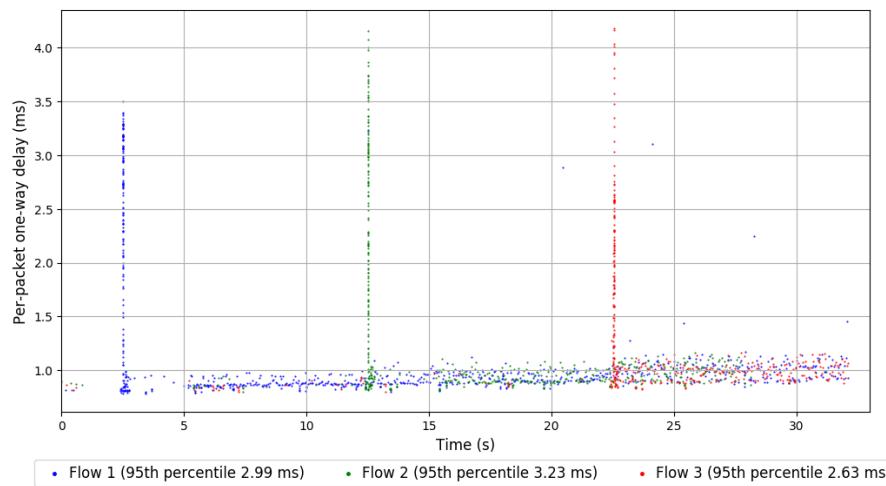
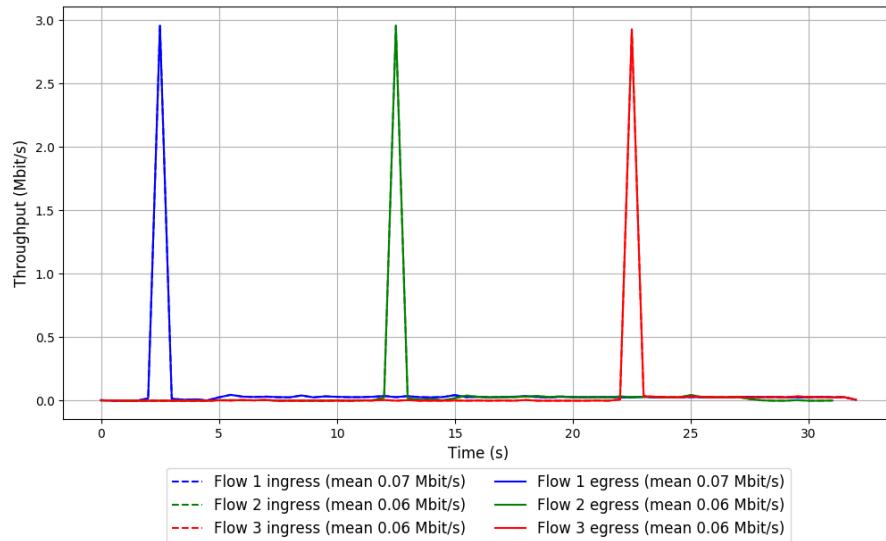


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-24 19:02:33
End at: 2018-04-24 19:03:03
Local clock offset: -5.206 ms
Remote clock offset: -5.317 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 3.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 2.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.228 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.632 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

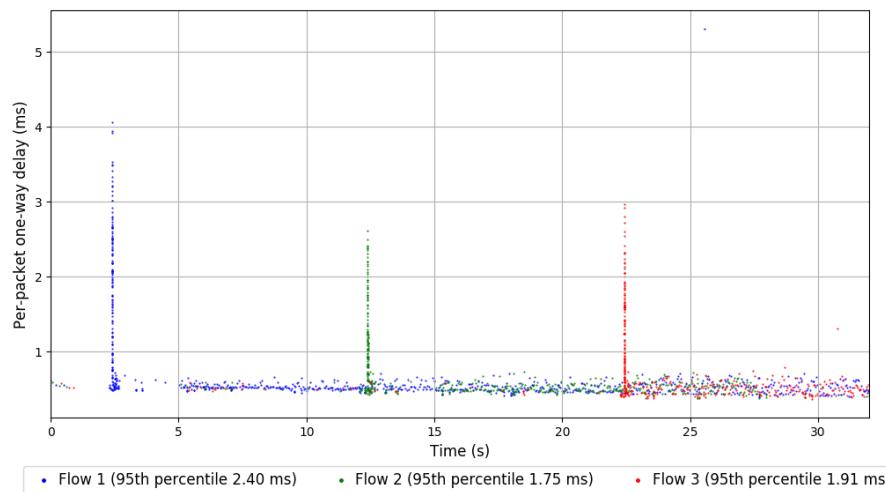
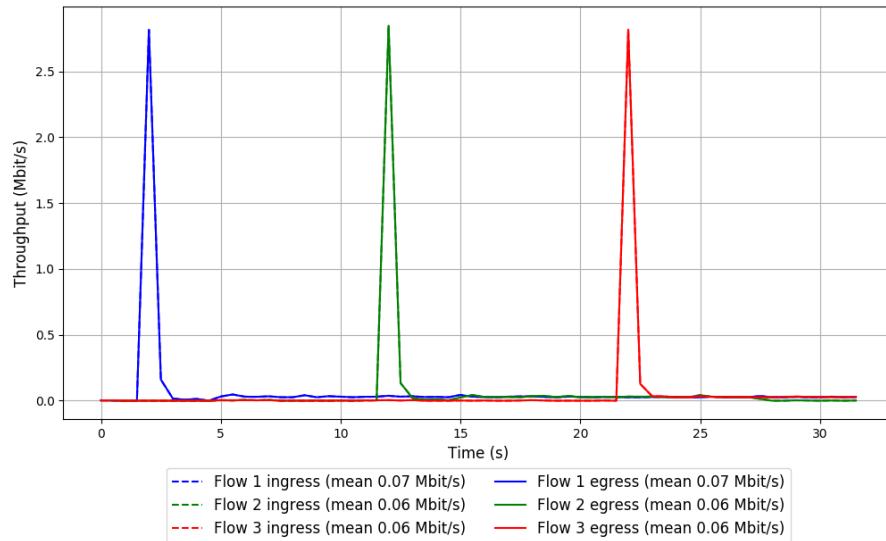


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-24 19:21:43
End at: 2018-04-24 19:22:13
Local clock offset: -7.111 ms
Remote clock offset: -5.449 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 2.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 2.401 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 1.749 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 1.910 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

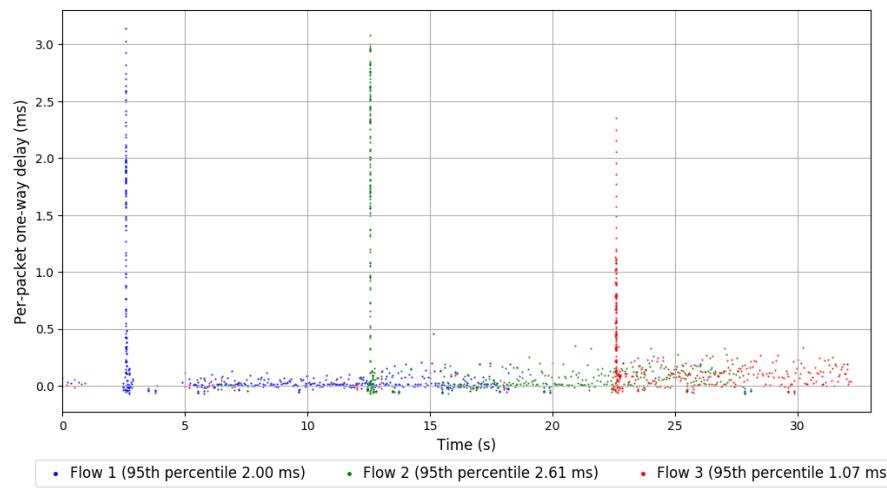
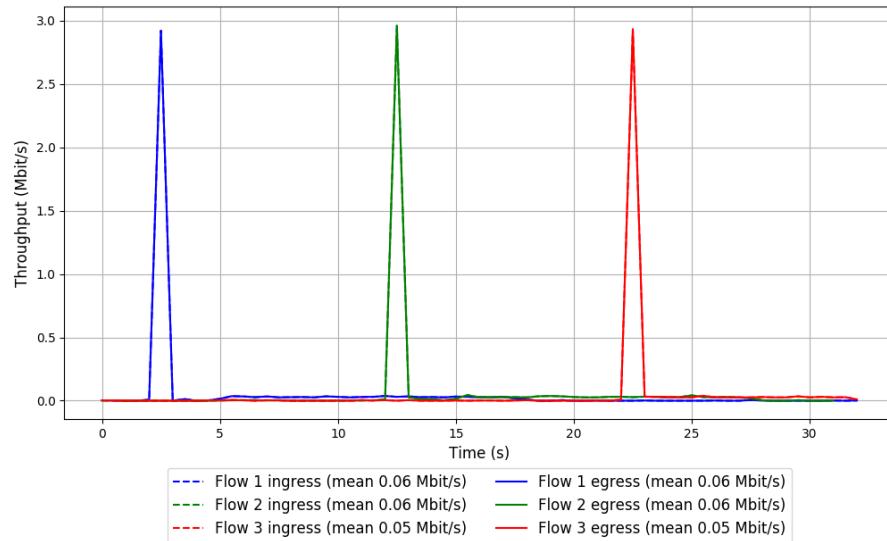


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-24 19:40:54
End at: 2018-04-24 19:41:24
Local clock offset: -6.028 ms
Remote clock offset: -5.483 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 2.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.000 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.608 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

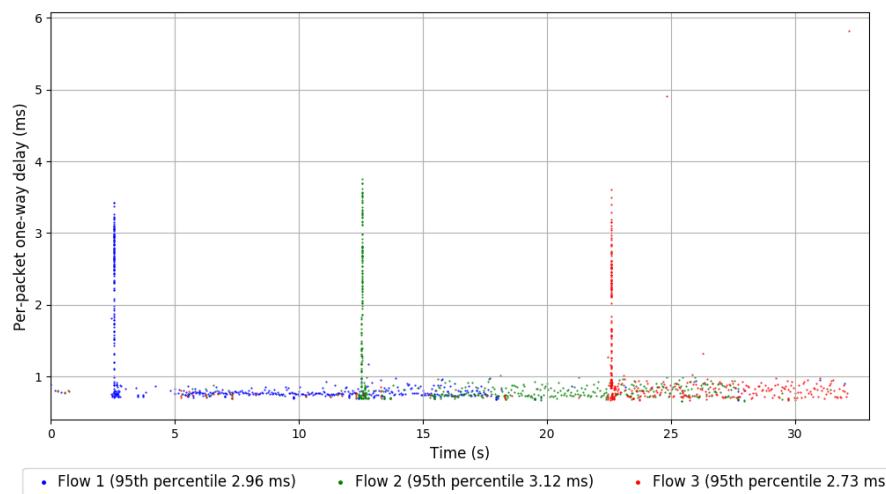
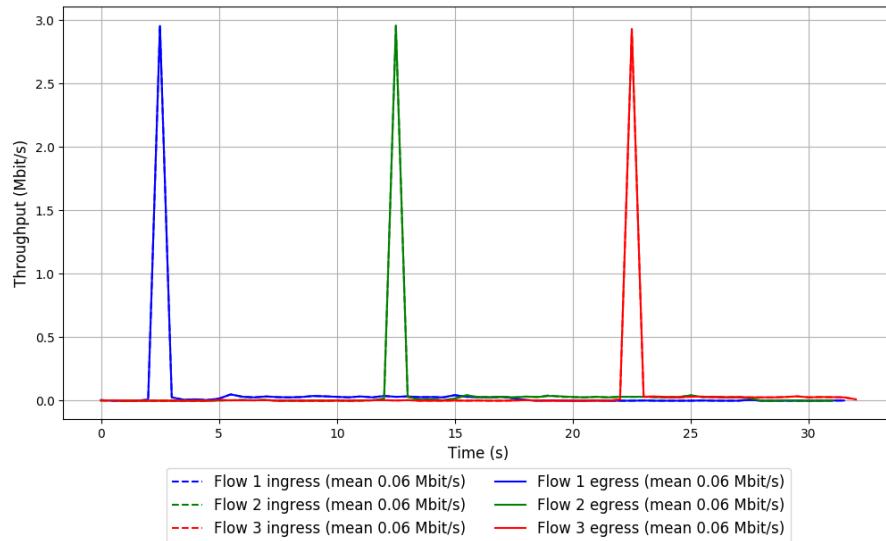


Run 10: Statistics of WebRTC media

```
Start at: 2018-04-24 20:00:03
End at: 2018-04-24 20:00:33
Local clock offset: -5.17 ms
Remote clock offset: -6.985 ms

# Below is generated by plot.py at 2018-04-24 23:30:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 2.946 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.956 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.117 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.734 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

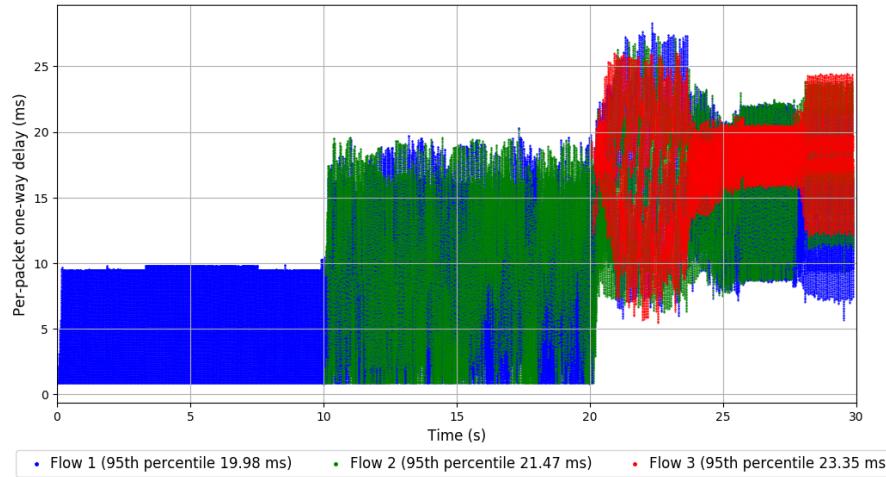
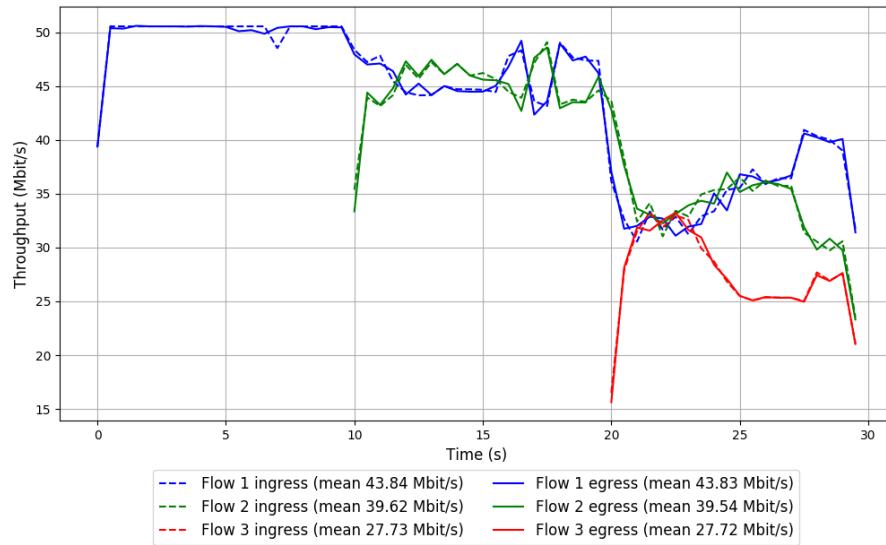


Run 1: Statistics of Sprout

```
Start at: 2018-04-24 17:02:00
End at: 2018-04-24 17:02:30
Local clock offset: -4.755 ms
Remote clock offset: -6.414 ms

# Below is generated by plot.py at 2018-04-24 23:30:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 21.241 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 43.83 Mbit/s
95th percentile per-packet one-way delay: 19.980 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 21.472 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 23.348 ms
Loss rate: 0.24%
```

Run 1: Report of Sprout — Data Link

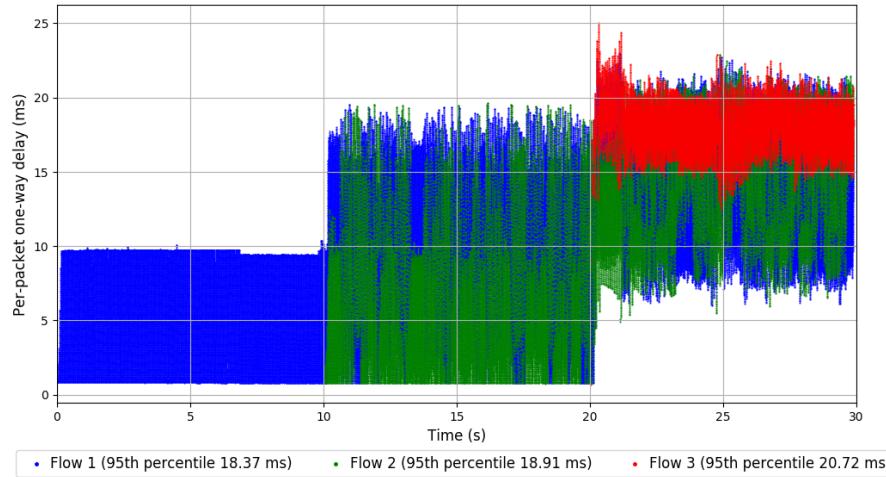
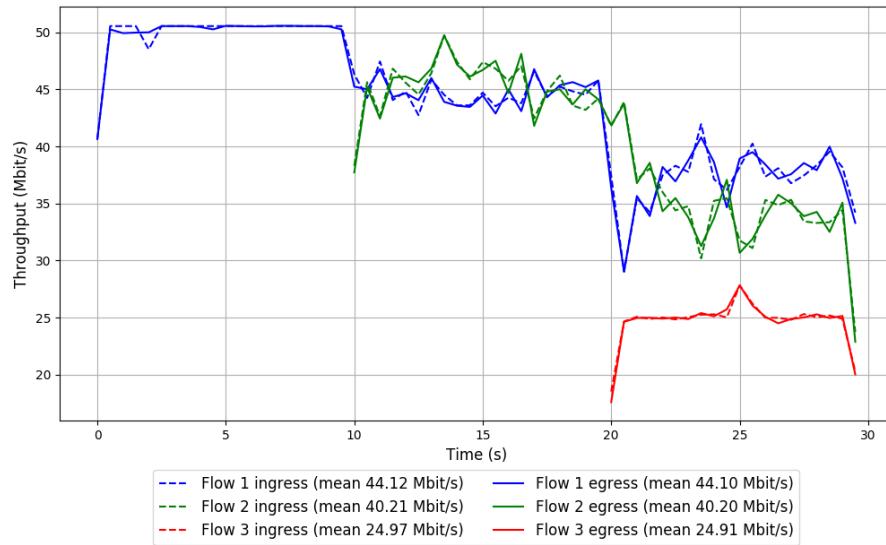


Run 2: Statistics of Sprout

```
Start at: 2018-04-24 17:21:08
End at: 2018-04-24 17:21:38
Local clock offset: -0.108 ms
Remote clock offset: -6.827 ms

# Below is generated by plot.py at 2018-04-24 23:30:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 19.349 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.10 Mbit/s
95th percentile per-packet one-way delay: 18.374 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.20 Mbit/s
95th percentile per-packet one-way delay: 18.909 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 20.717 ms
Loss rate: 0.23%
```

Run 2: Report of Sprout — Data Link

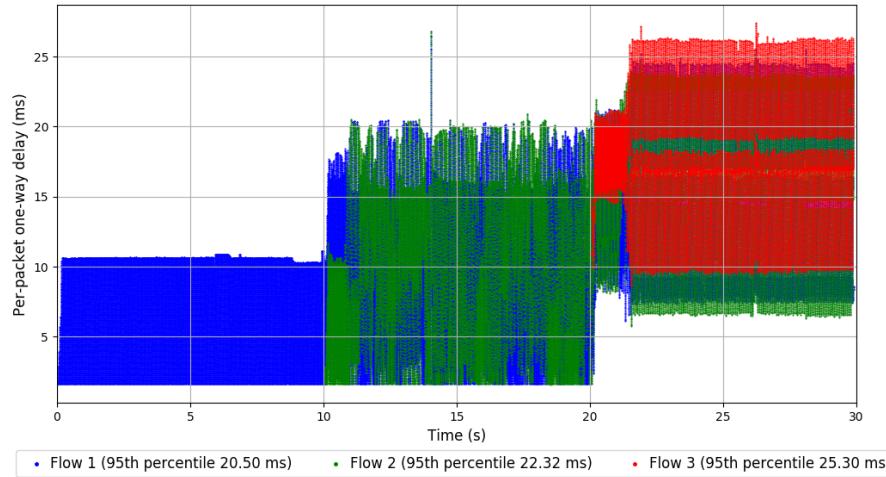
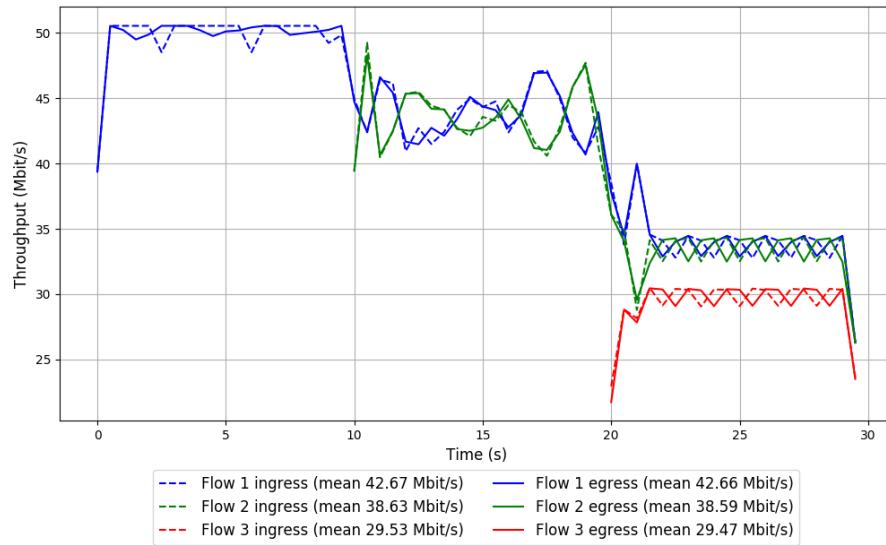


Run 3: Statistics of Sprout

```
Start at: 2018-04-24 17:40:17
End at: 2018-04-24 17:40:47
Local clock offset: 2.517 ms
Remote clock offset: -6.093 ms

# Below is generated by plot.py at 2018-04-24 23:30:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.04 Mbit/s
95th percentile per-packet one-way delay: 22.659 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 20.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.59 Mbit/s
95th percentile per-packet one-way delay: 22.324 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 25.304 ms
Loss rate: 0.29%
```

Run 3: Report of Sprout — Data Link

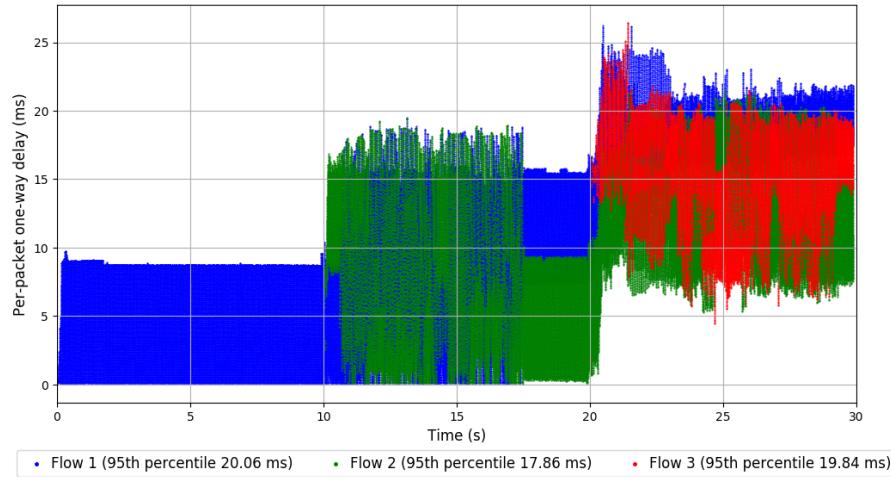
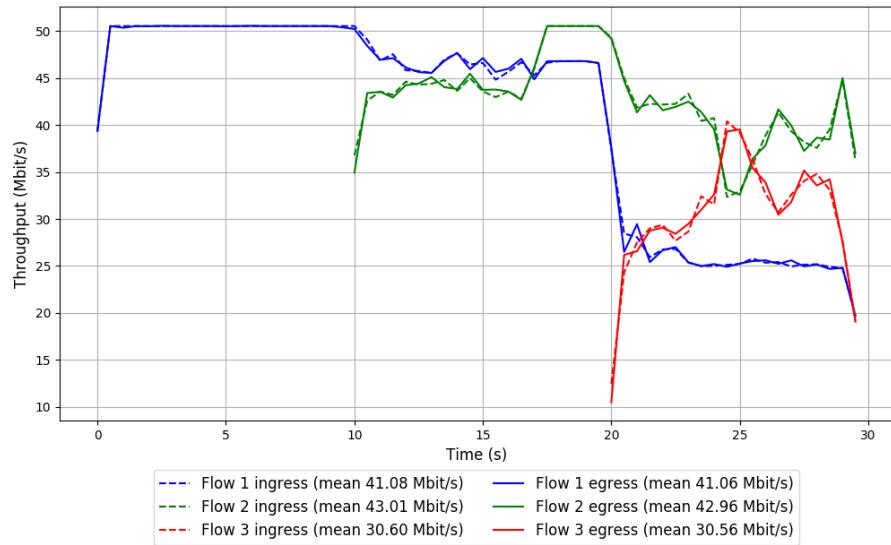


Run 4: Statistics of Sprout

```
Start at: 2018-04-24 17:59:24
End at: 2018-04-24 17:59:54
Local clock offset: 2.441 ms
Remote clock offset: -5.675 ms

# Below is generated by plot.py at 2018-04-24 23:31:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.71 Mbit/s
95th percentile per-packet one-way delay: 19.468 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 20.064 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 17.863 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 19.845 ms
Loss rate: 0.17%
```

Run 4: Report of Sprout — Data Link

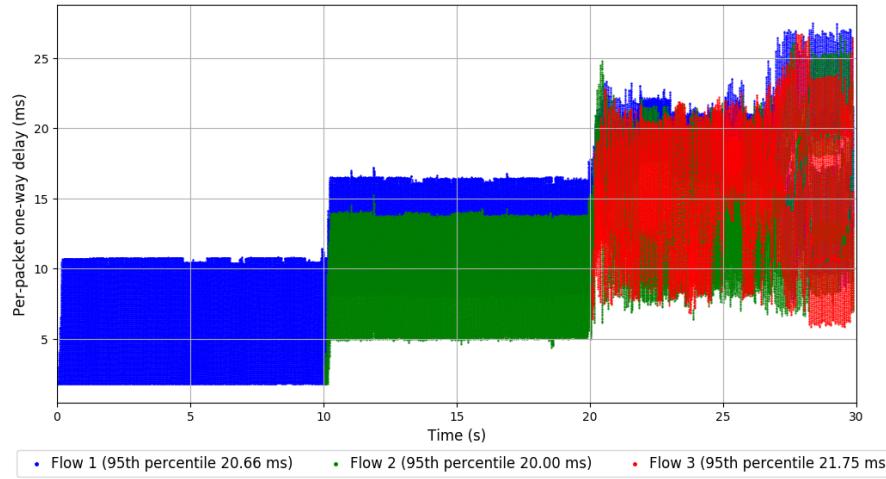
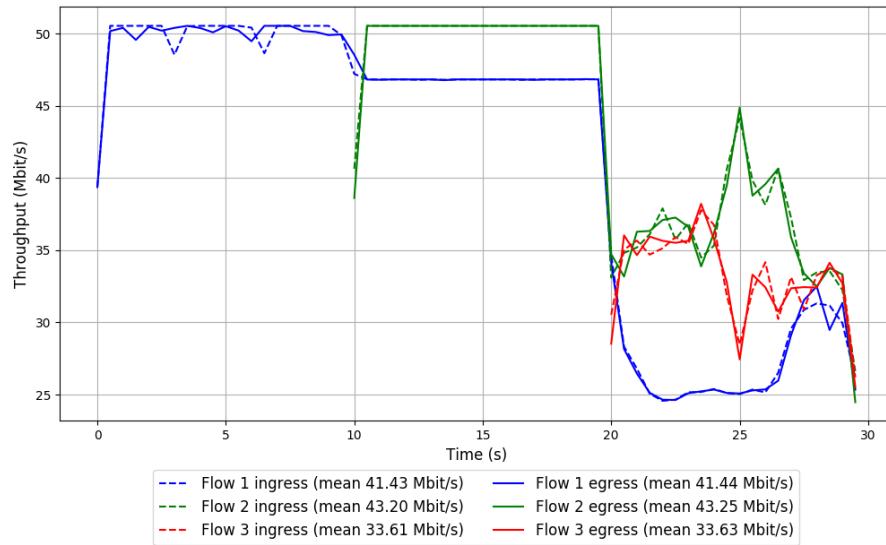


Run 5: Statistics of Sprout

```
Start at: 2018-04-24 18:18:33
End at: 2018-04-24 18:19:03
Local clock offset: 2.643 ms
Remote clock offset: -5.453 ms

# Below is generated by plot.py at 2018-04-24 23:31:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.26 Mbit/s
95th percentile per-packet one-way delay: 20.698 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 20.661 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 43.25 Mbit/s
95th percentile per-packet one-way delay: 19.997 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 33.63 Mbit/s
95th percentile per-packet one-way delay: 21.747 ms
Loss rate: 0.31%
```

Run 5: Report of Sprout — Data Link

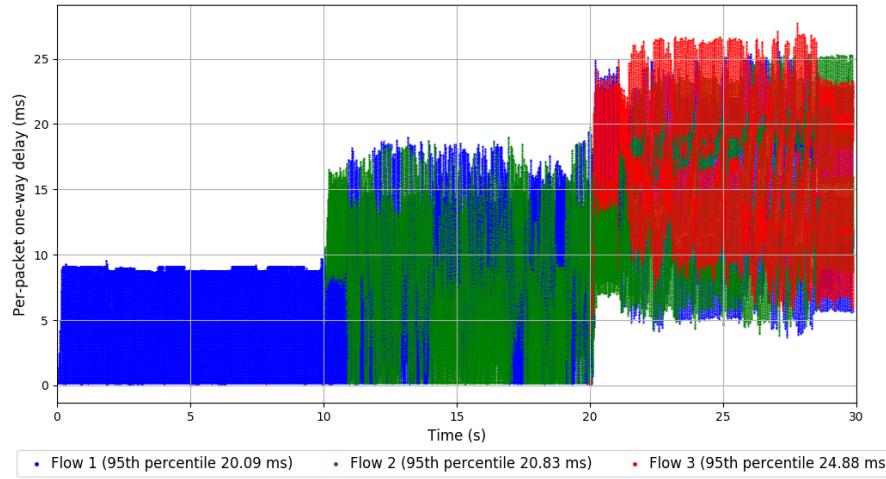
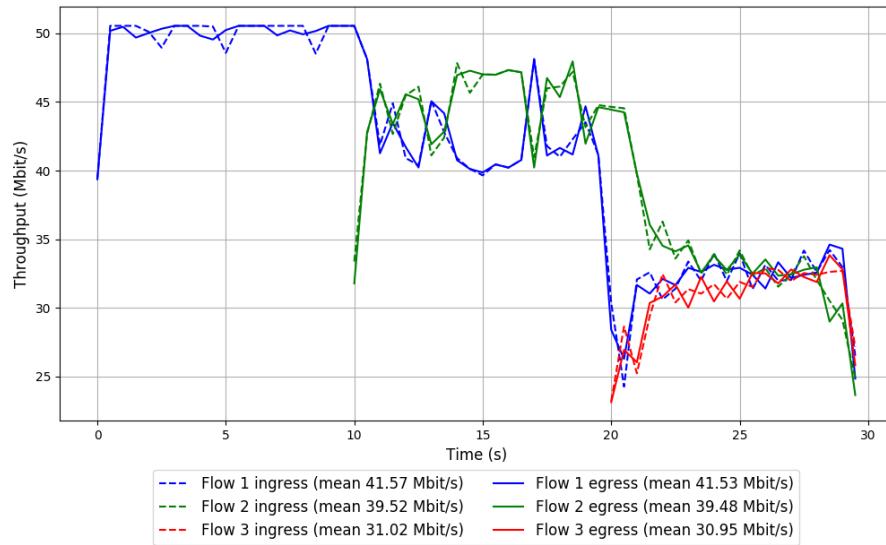


Run 6: Statistics of Sprout

```
Start at: 2018-04-24 18:37:43
End at: 2018-04-24 18:38:13
Local clock offset: -1.287 ms
Remote clock offset: -5.307 ms

# Below is generated by plot.py at 2018-04-24 23:31:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 21.843 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 20.087 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 20.834 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 24.877 ms
Loss rate: 0.33%
```

Run 6: Report of Sprout — Data Link

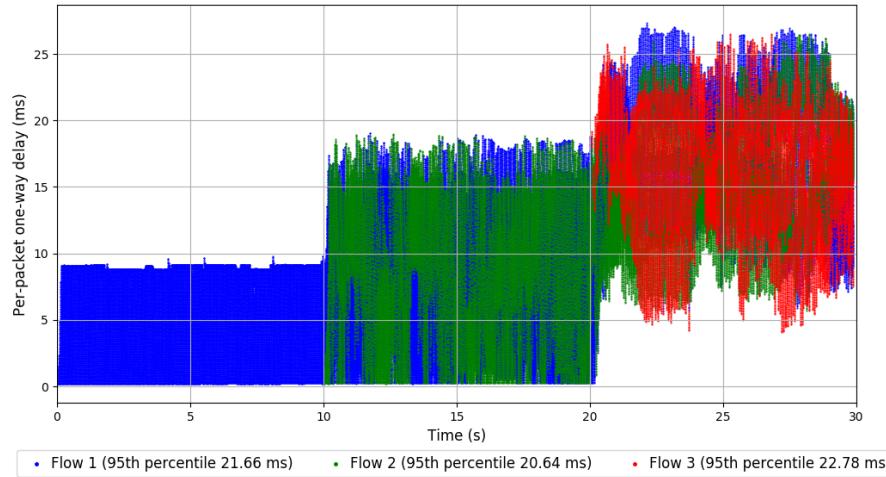
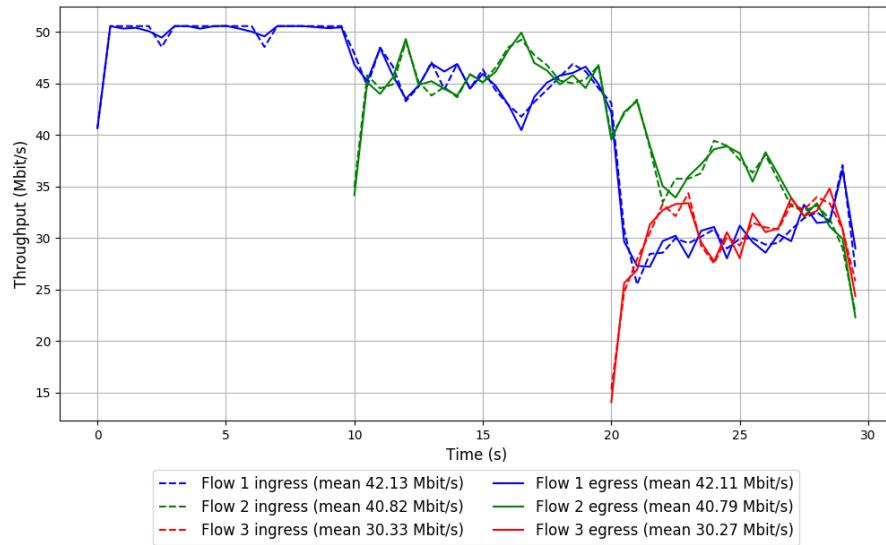


Run 7: Statistics of Sprout

```
Start at: 2018-04-24 18:56:53
End at: 2018-04-24 18:57:23
Local clock offset: -5.047 ms
Remote clock offset: -5.389 ms

# Below is generated by plot.py at 2018-04-24 23:31:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.20 Mbit/s
95th percentile per-packet one-way delay: 21.672 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 21.657 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 20.644 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.27 Mbit/s
95th percentile per-packet one-way delay: 22.778 ms
Loss rate: 0.33%
```

Run 7: Report of Sprout — Data Link

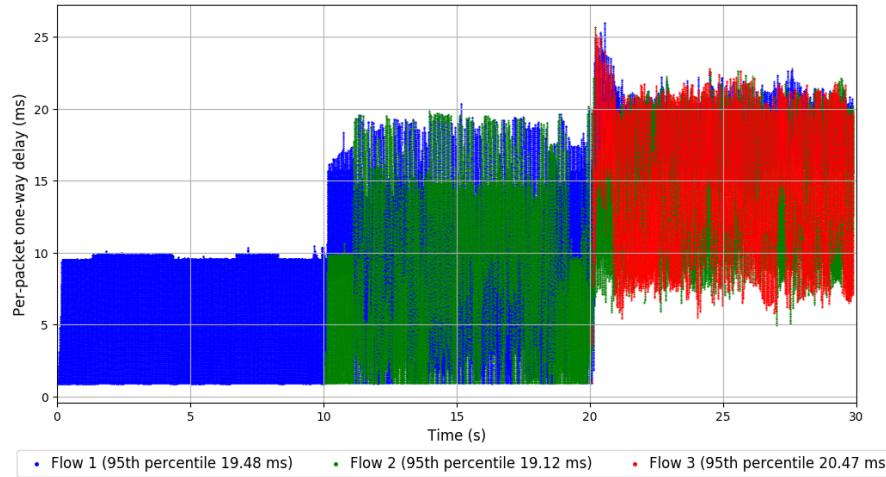
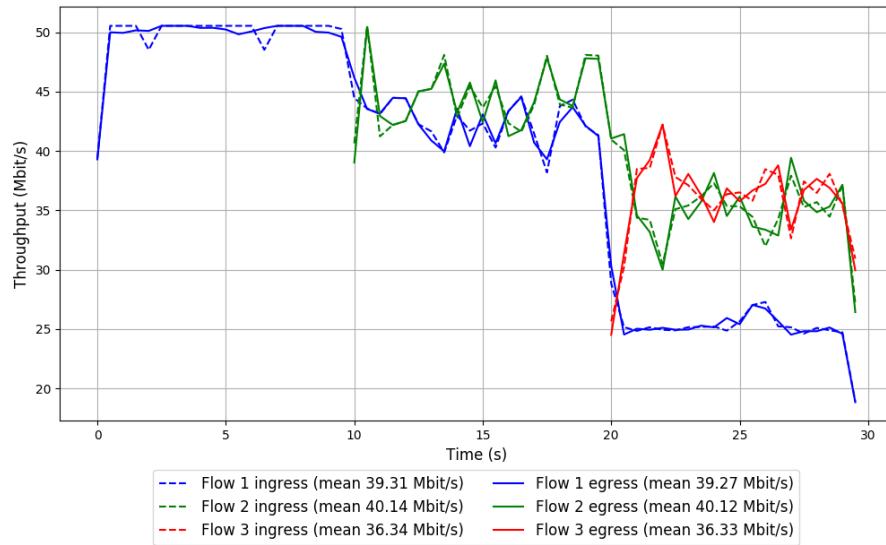


Run 8: Statistics of Sprout

```
Start at: 2018-04-24 19:16:03
End at: 2018-04-24 19:16:33
Local clock offset: -6.712 ms
Remote clock offset: -5.384 ms

# Below is generated by plot.py at 2018-04-24 23:31:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 19.620 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 19.479 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 40.12 Mbit/s
95th percentile per-packet one-way delay: 19.119 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 20.470 ms
Loss rate: 0.28%
```

Run 8: Report of Sprout — Data Link

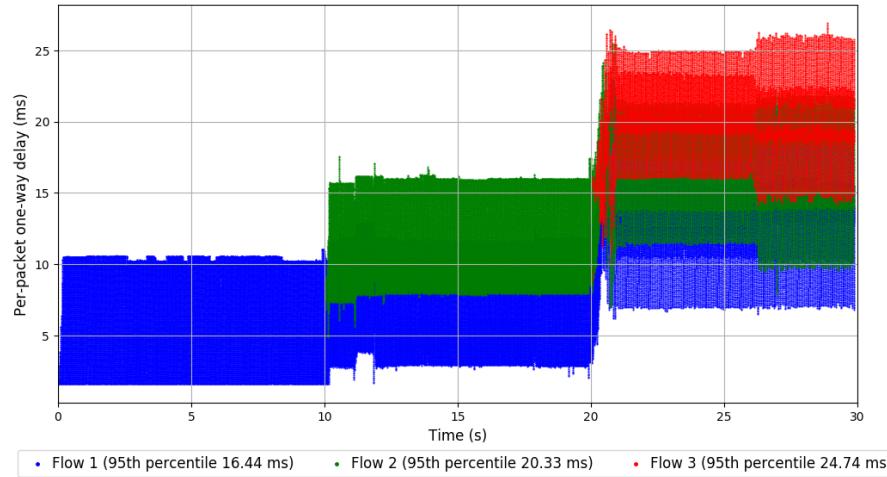
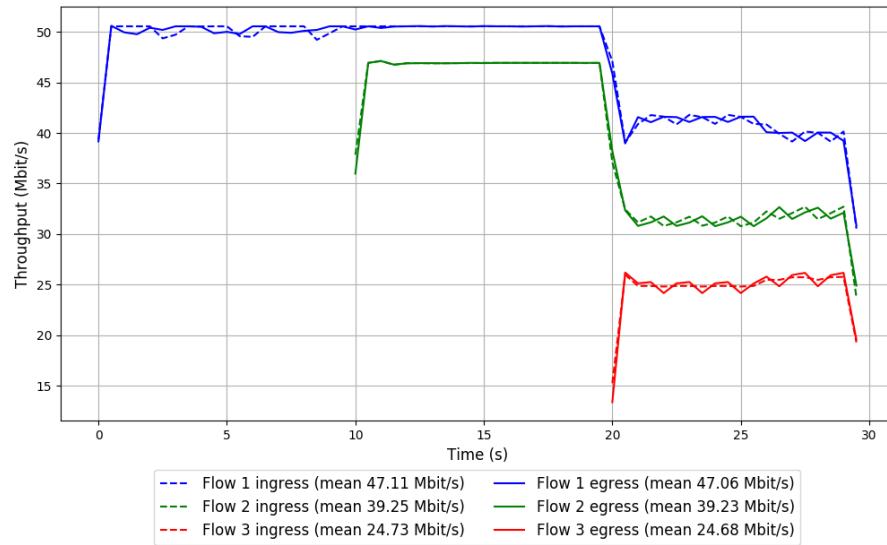


Run 9: Statistics of Sprout

```
Start at: 2018-04-24 19:35:13
End at: 2018-04-24 19:35:43
Local clock offset: -4.619 ms
Remote clock offset: -5.489 ms

# Below is generated by plot.py at 2018-04-24 23:31:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 21.091 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 16.439 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 20.331 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 24.739 ms
Loss rate: 0.17%
```

Run 9: Report of Sprout — Data Link

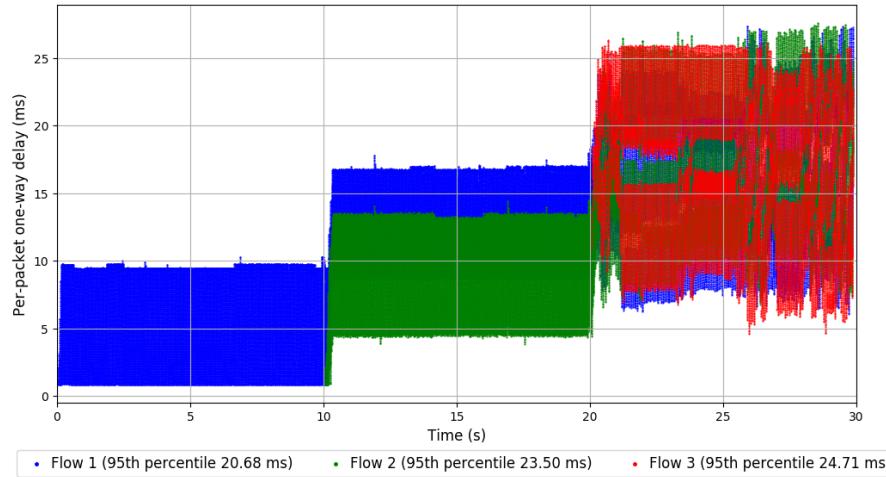
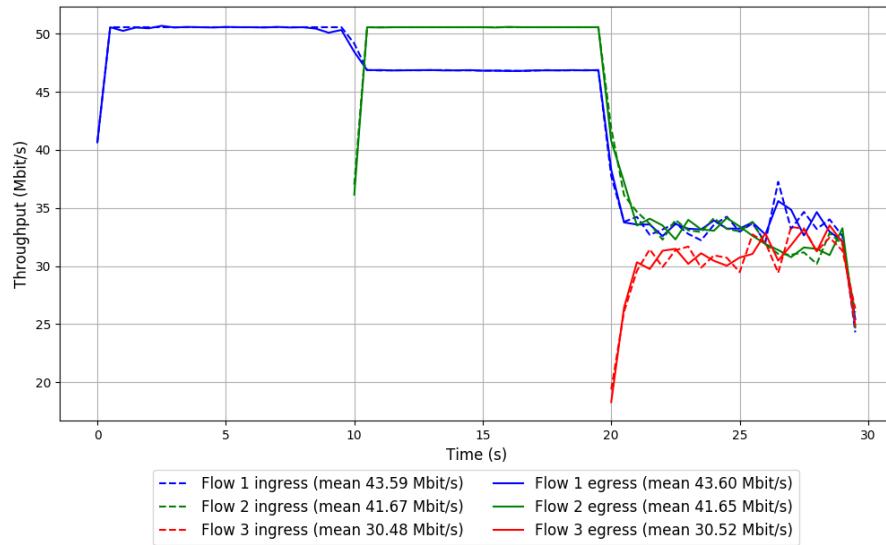


Run 10: Statistics of Sprout

```
Start at: 2018-04-24 19:54:23
End at: 2018-04-24 19:54:53
Local clock offset: -5.487 ms
Remote clock offset: -6.637 ms

# Below is generated by plot.py at 2018-04-24 23:31:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 22.851 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 43.60 Mbit/s
95th percentile per-packet one-way delay: 20.683 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 41.65 Mbit/s
95th percentile per-packet one-way delay: 23.504 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 30.52 Mbit/s
95th percentile per-packet one-way delay: 24.715 ms
Loss rate: 0.23%
```

Run 10: Report of Sprout — Data Link

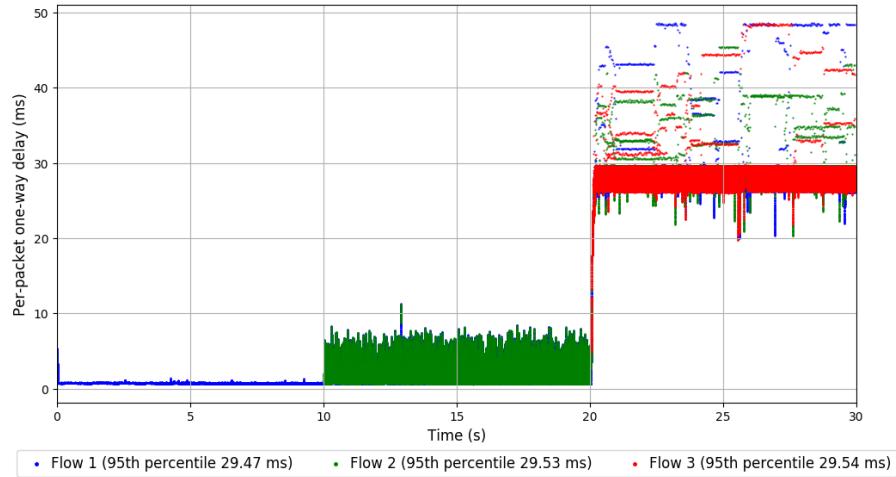
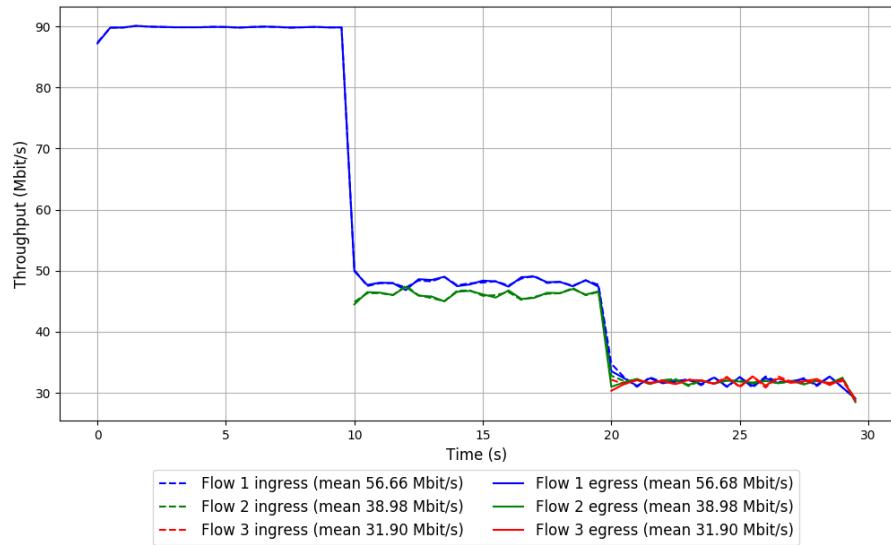


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-24 17:15:22
End at: 2018-04-24 17:15:52
Local clock offset: -1.107 ms
Remote clock offset: -6.774 ms

# Below is generated by plot.py at 2018-04-24 23:33:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 29.504 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 29.469 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 29.529 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 29.541 ms
Loss rate: 0.29%
```

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

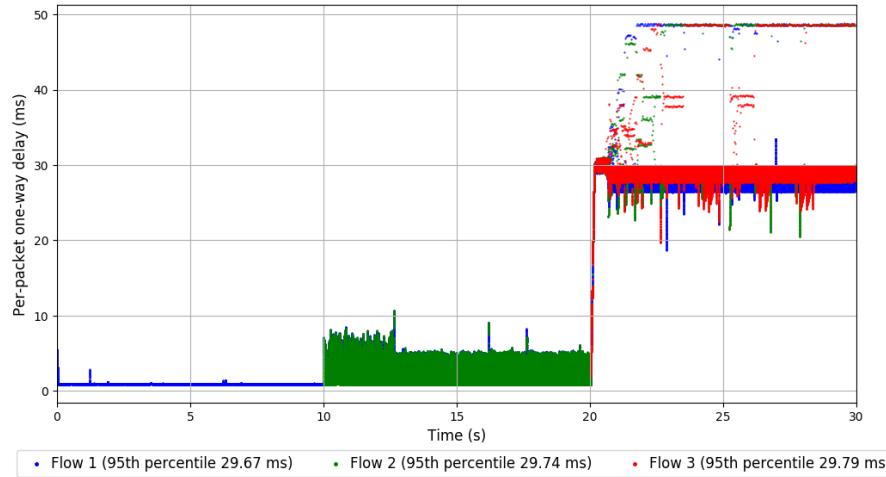
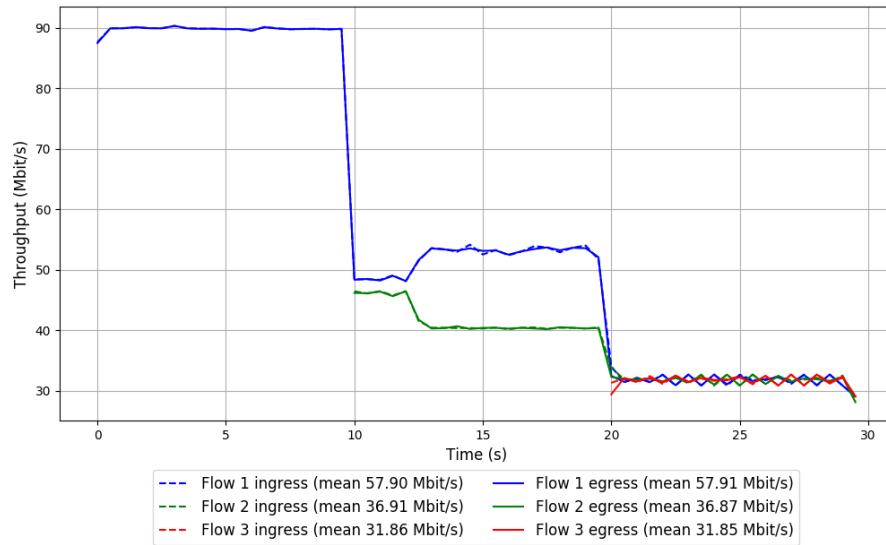


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-24 17:34:32
End at: 2018-04-24 17:35:02
Local clock offset: 1.288 ms
Remote clock offset: -6.372 ms

# Below is generated by plot.py at 2018-04-24 23:33:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 29.733 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 29.672 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 29.738 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 29.794 ms
Loss rate: 0.29%
```

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

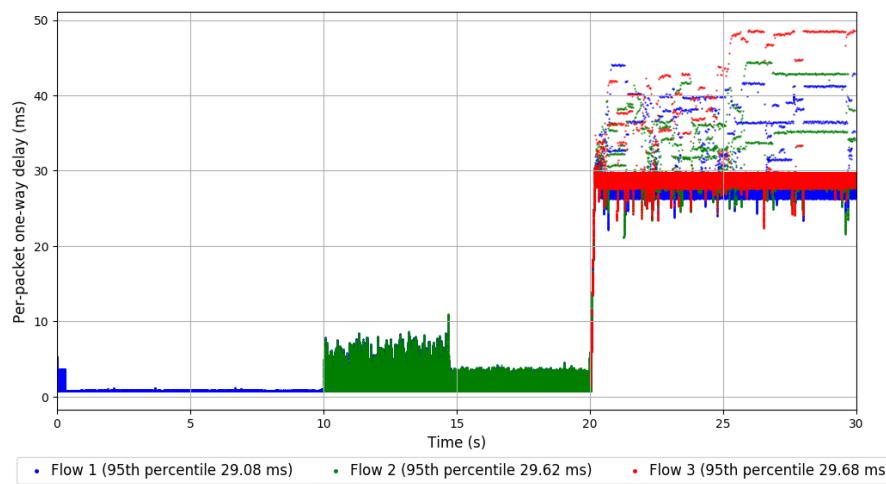
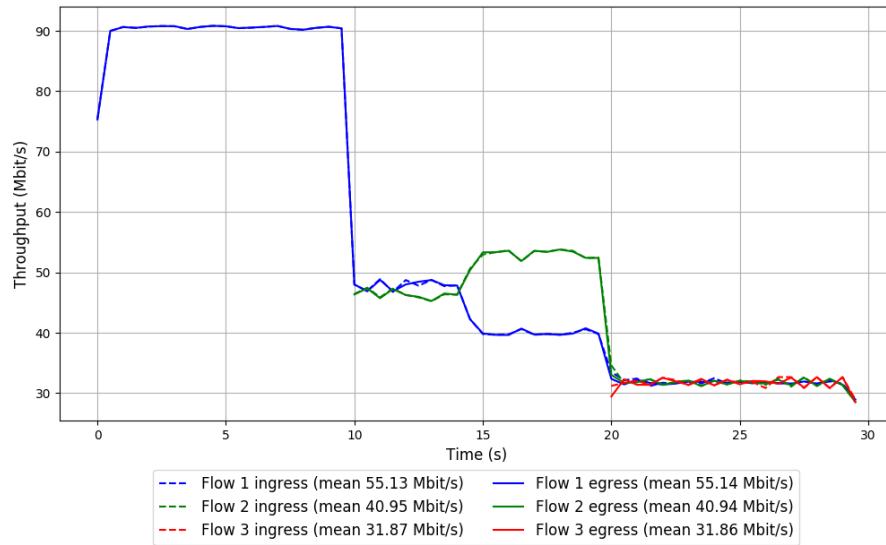


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-24 17:53:39
End at: 2018-04-24 17:54:09
Local clock offset: 2.694 ms
Remote clock offset: -5.759 ms

# Below is generated by plot.py at 2018-04-24 23:33:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 29.601 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 29.082 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 29.619 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 29.679 ms
Loss rate: 0.35%
```

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

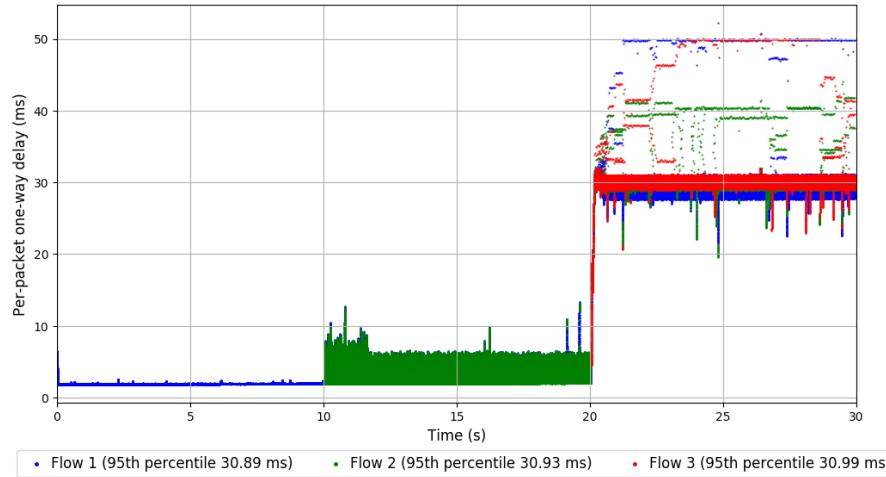
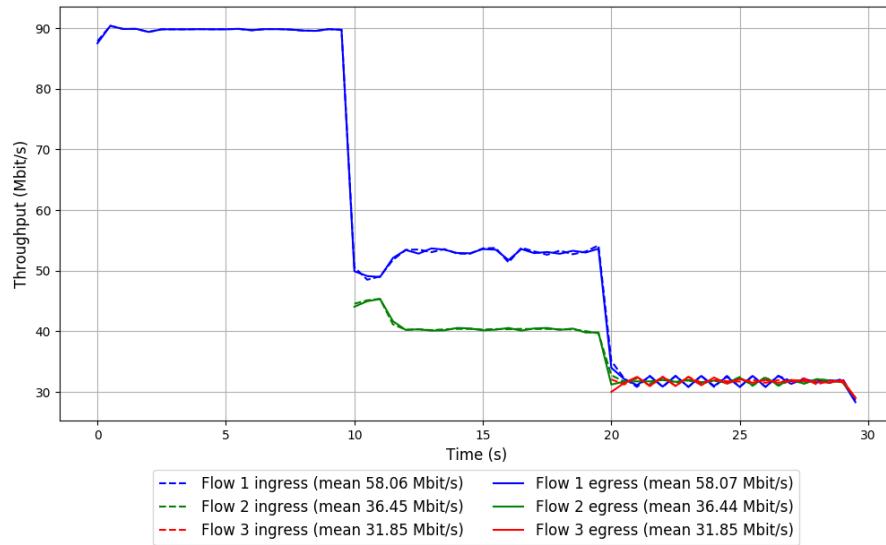


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-24 18:12:47
End at: 2018-04-24 18:13:17
Local clock offset: 4.888 ms
Remote clock offset: -5.6 ms

# Below is generated by plot.py at 2018-04-24 23:33:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 30.933 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 30.887 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 30.927 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 30.989 ms
Loss rate: 0.29%
```

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

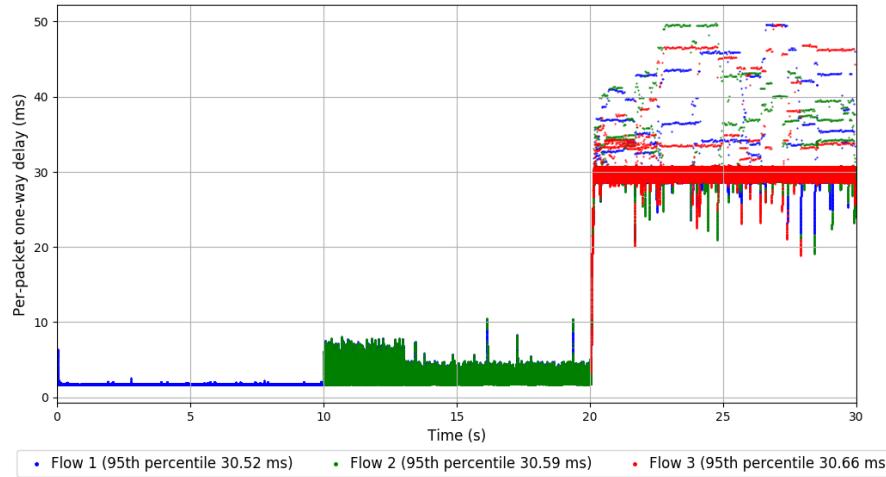
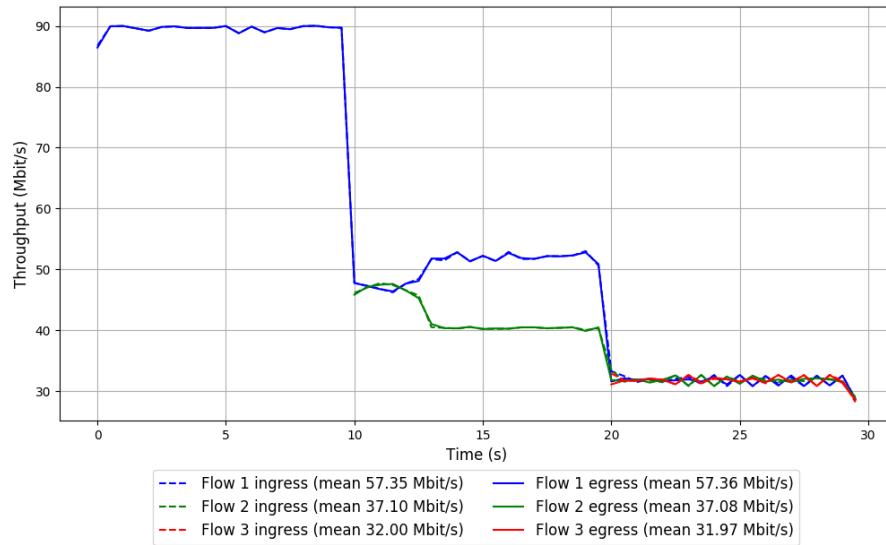


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-24 18:31:57
End at: 2018-04-24 18:32:27
Local clock offset: 0.608 ms
Remote clock offset: -5.329 ms

# Below is generated by plot.py at 2018-04-24 23:34:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 30.582 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 30.522 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 37.08 Mbit/s
95th percentile per-packet one-way delay: 30.586 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 30.659 ms
Loss rate: 0.29%
```

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

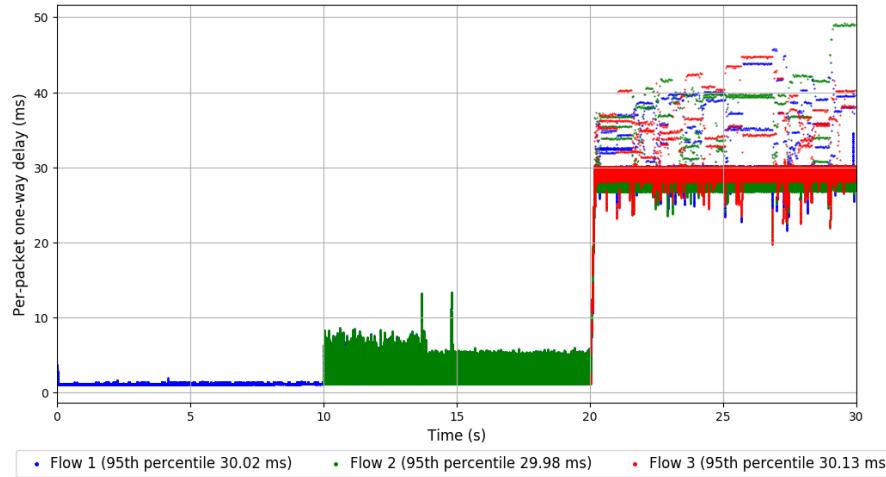
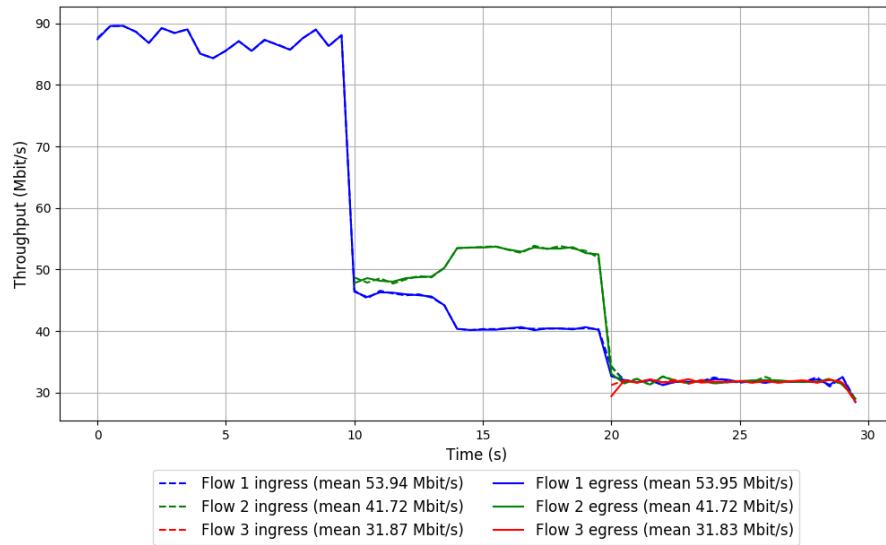


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-24 18:51:08
End at: 2018-04-24 18:51:38
Local clock offset: -2.524 ms
Remote clock offset: -5.431 ms

# Below is generated by plot.py at 2018-04-24 23:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 30.055 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 30.017 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 41.72 Mbit/s
95th percentile per-packet one-way delay: 29.982 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 30.132 ms
Loss rate: 0.29%
```

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

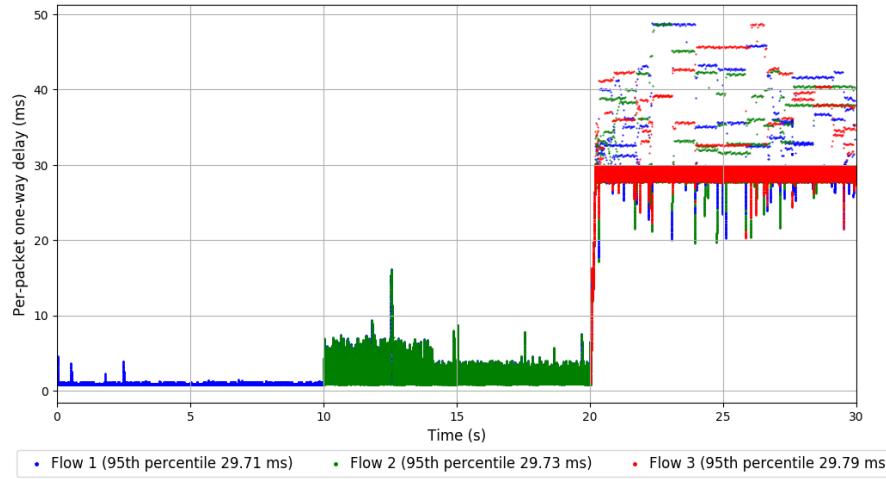
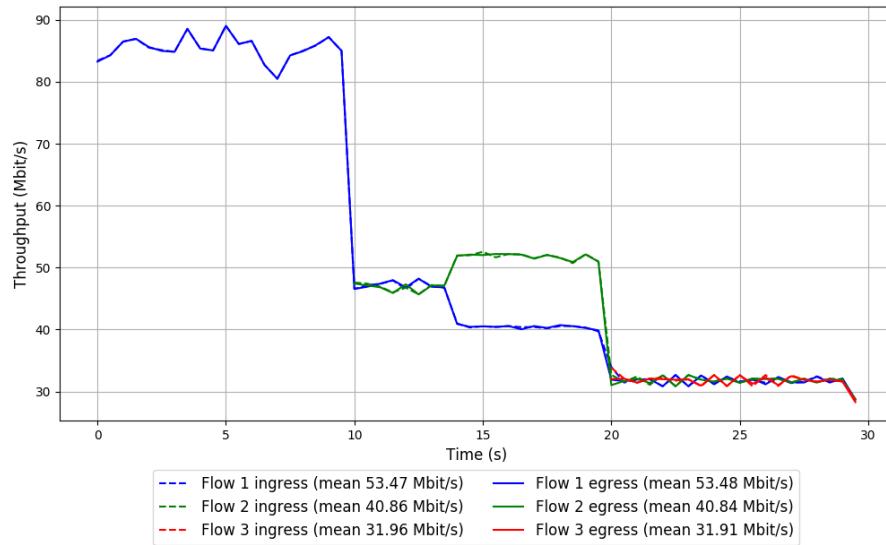


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-24 19:10:17
End at: 2018-04-24 19:10:47
Local clock offset: -6.221 ms
Remote clock offset: -5.25 ms

# Below is generated by plot.py at 2018-04-24 23:34:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 29.742 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 29.708 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.84 Mbit/s
95th percentile per-packet one-way delay: 29.729 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 29.794 ms
Loss rate: 0.37%
```

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

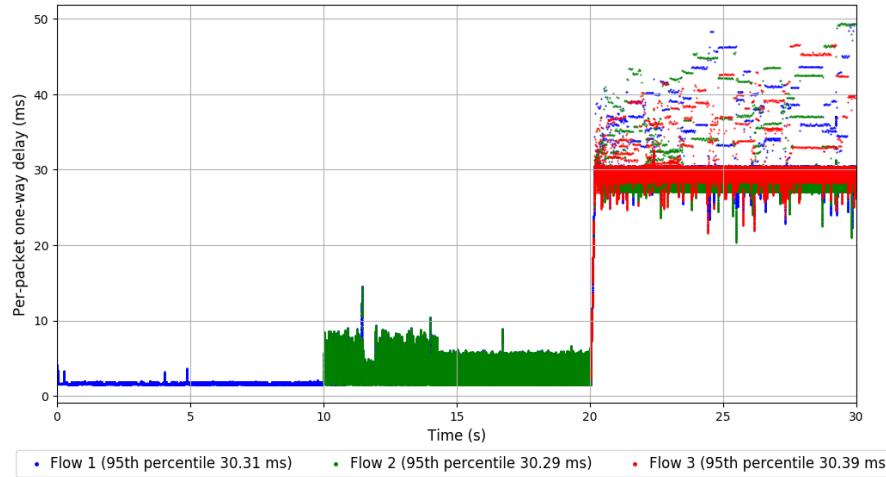
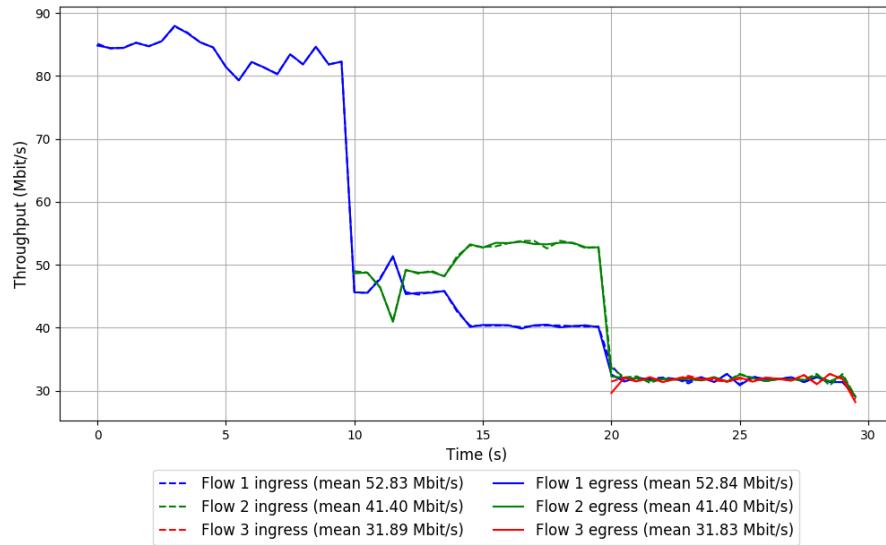


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-24 19:29:28
End at: 2018-04-24 19:29:58
Local clock offset: -4.94 ms
Remote clock offset: -5.492 ms

# Below is generated by plot.py at 2018-04-24 23:34:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 30.338 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 30.307 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 41.40 Mbit/s
95th percentile per-packet one-way delay: 30.286 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 30.395 ms
Loss rate: 0.36%
```

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

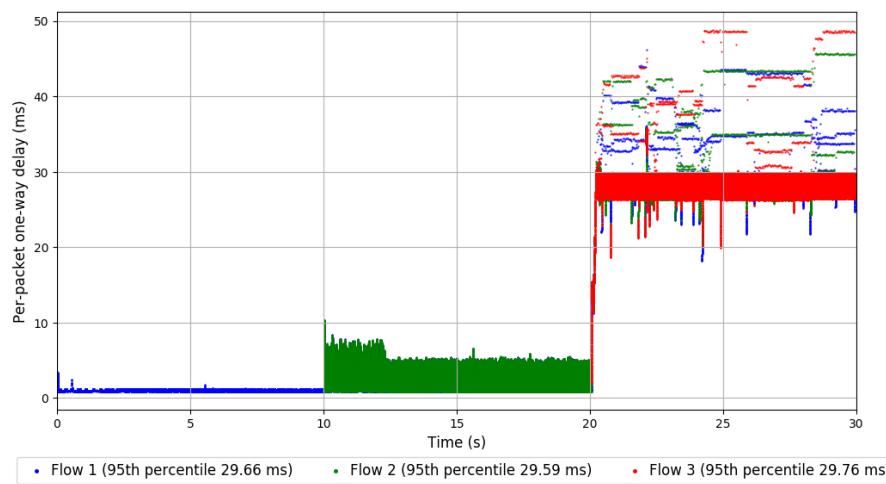
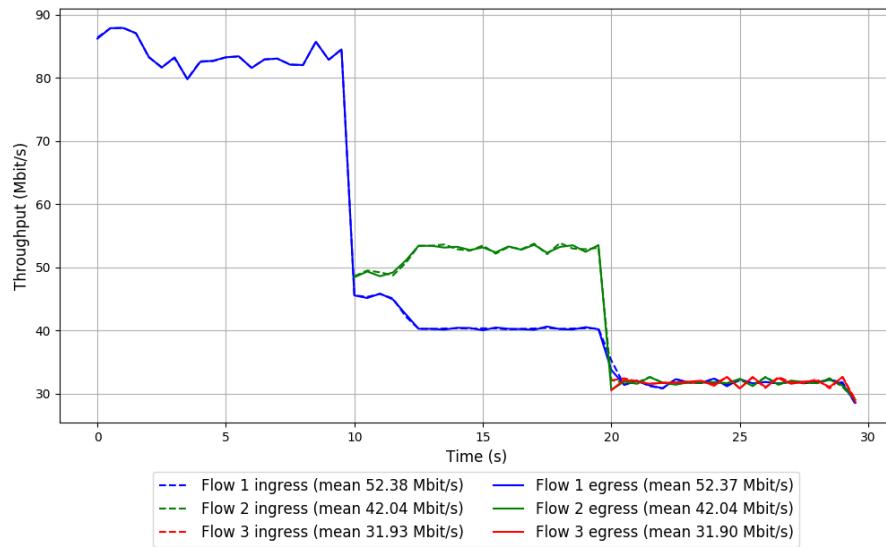


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-24 19:48:38
End at: 2018-04-24 19:49:08
Local clock offset: -5.359 ms
Remote clock offset: -6.154 ms

# Below is generated by plot.py at 2018-04-24 23:35:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 29.687 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 29.656 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 42.04 Mbit/s
95th percentile per-packet one-way delay: 29.594 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 29.760 ms
Loss rate: 0.34%
```

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

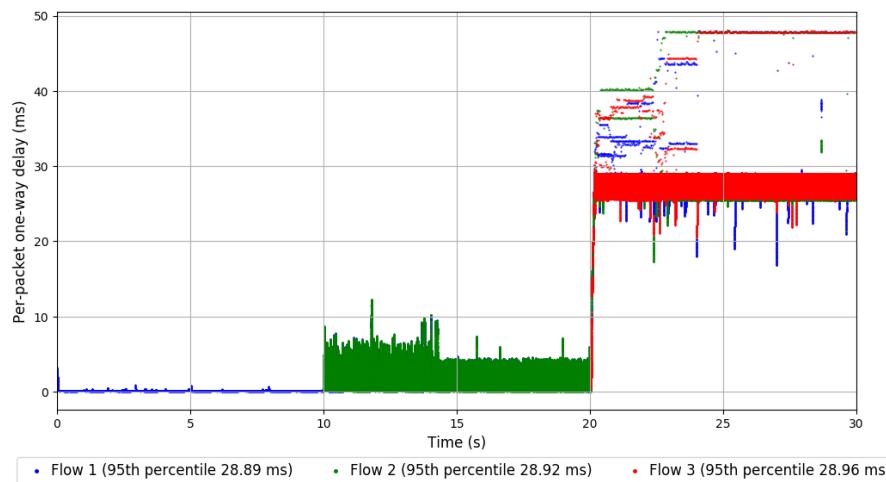
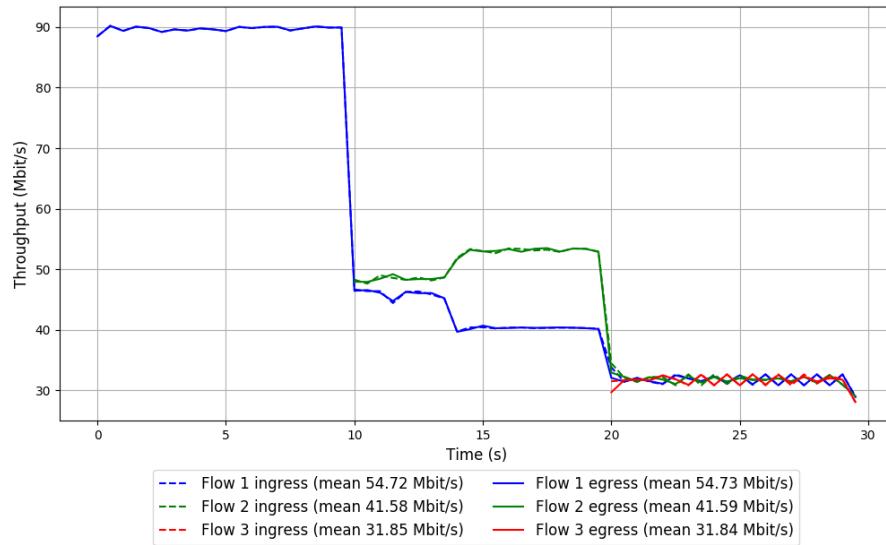


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-24 20:07:48
End at: 2018-04-24 20:08:18
Local clock offset: -5.736 ms
Remote clock offset: -7.257 ms

# Below is generated by plot.py at 2018-04-24 23:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 28.917 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 54.73 Mbit/s
95th percentile per-packet one-way delay: 28.885 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 41.59 Mbit/s
95th percentile per-packet one-way delay: 28.918 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 28.962 ms
Loss rate: 0.29%
```

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

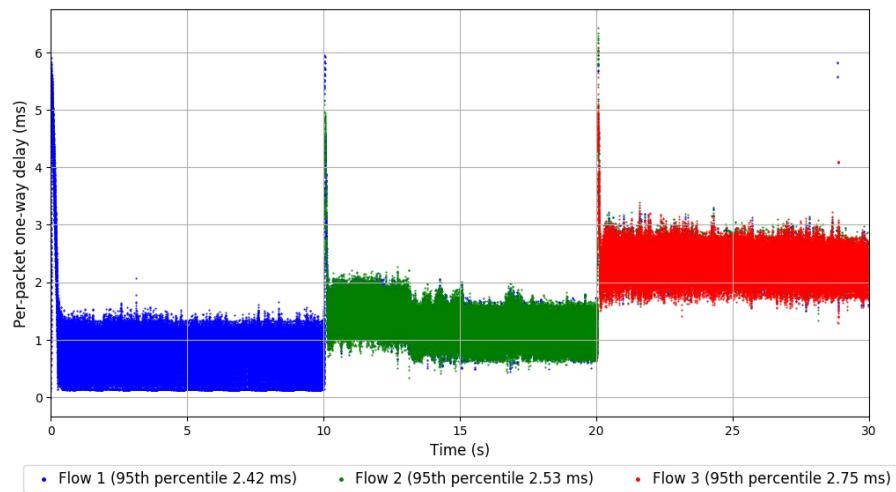
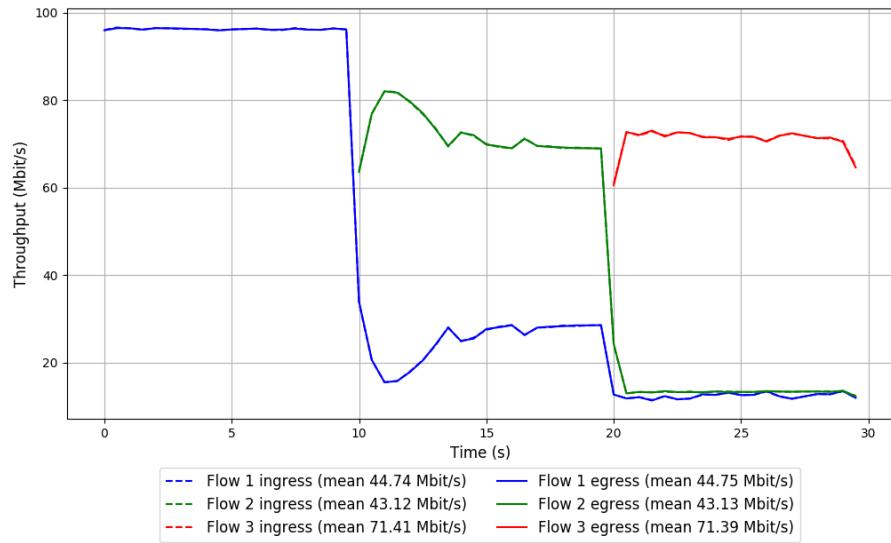


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-24 17:03:06
End at: 2018-04-24 17:03:36
Local clock offset: -5.492 ms
Remote clock offset: -6.491 ms

# Below is generated by plot.py at 2018-04-24 23:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 2.650 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 2.425 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.13 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 71.39 Mbit/s
95th percentile per-packet one-way delay: 2.748 ms
Loss rate: 0.06%
```

Run 1: Report of TCP Vegas — Data Link

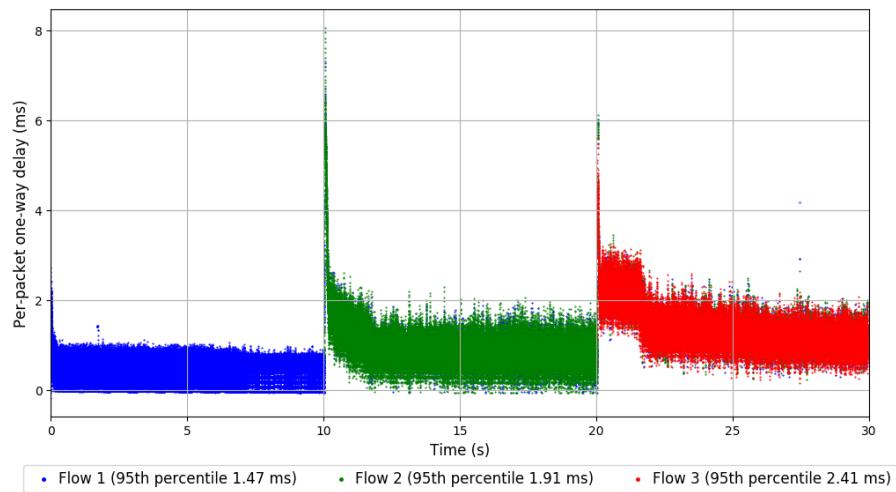
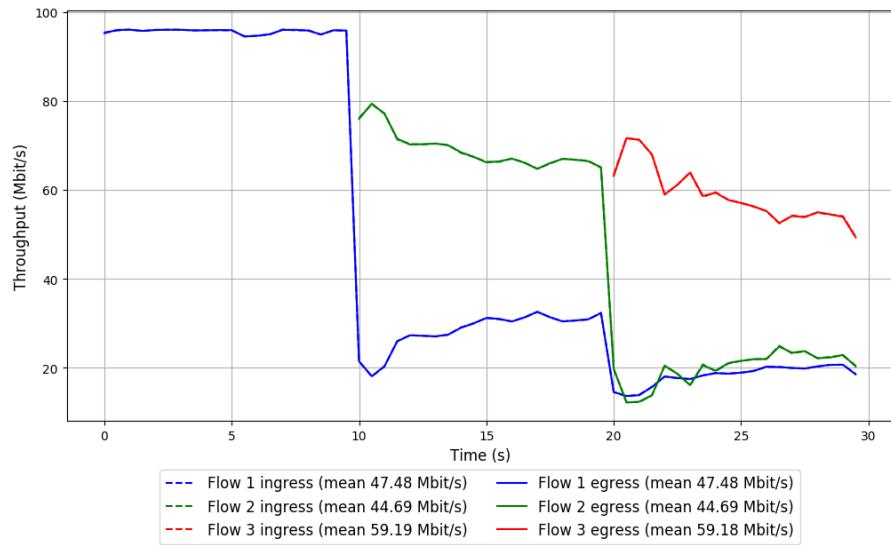


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-24 17:22:15
End at: 2018-04-24 17:22:45
Local clock offset: -0.806 ms
Remote clock offset: -6.836 ms

# Below is generated by plot.py at 2018-04-24 23:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.84 Mbit/s
95th percentile per-packet one-way delay: 1.981 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 47.48 Mbit/s
95th percentile per-packet one-way delay: 1.472 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 1.905 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 2.409 ms
Loss rate: 0.03%
```

Run 2: Report of TCP Vegas — Data Link

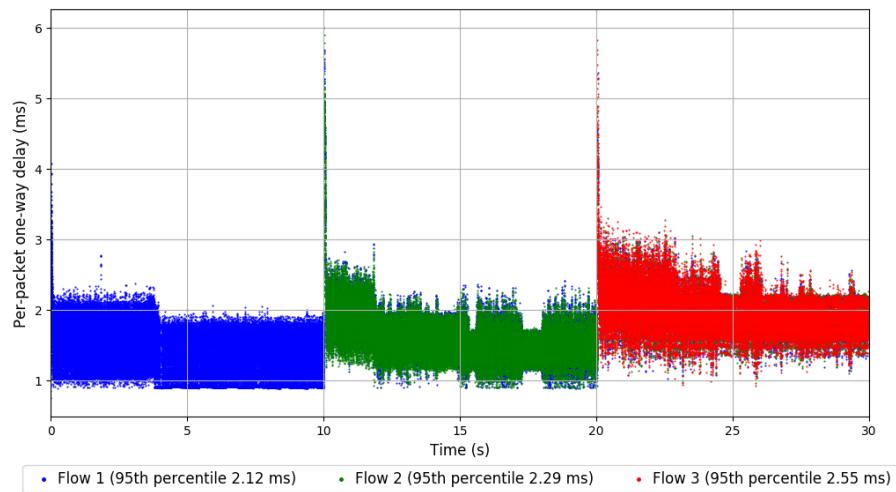
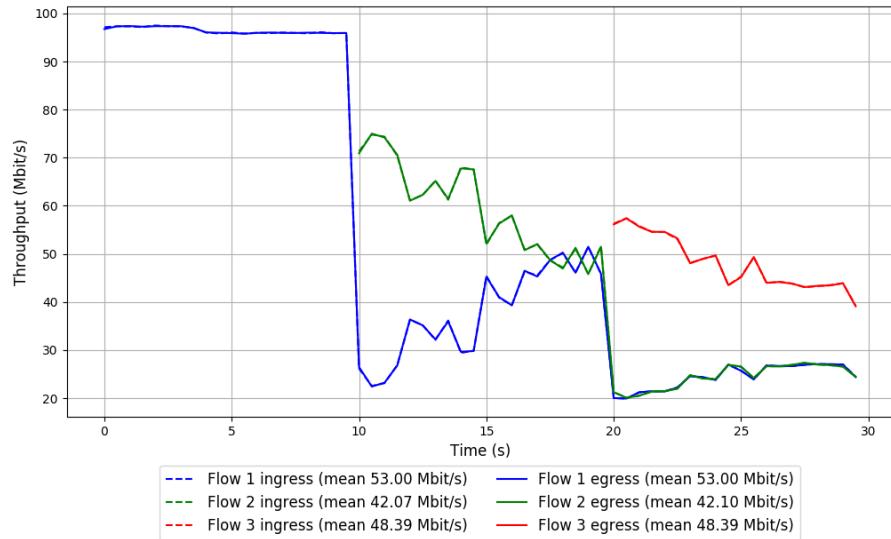


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-24 17:41:23
End at: 2018-04-24 17:41:53
Local clock offset: 1.871 ms
Remote clock offset: -6.061 ms

# Below is generated by plot.py at 2018-04-24 23:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 2.300 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.00 Mbit/s
95th percentile per-packet one-way delay: 2.117 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.10 Mbit/s
95th percentile per-packet one-way delay: 2.292 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 2.550 ms
Loss rate: 0.03%
```

Run 3: Report of TCP Vegas — Data Link

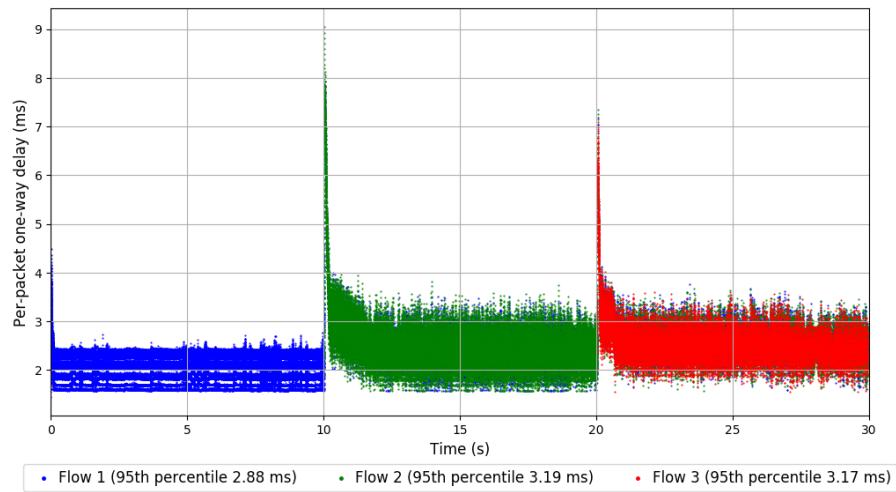
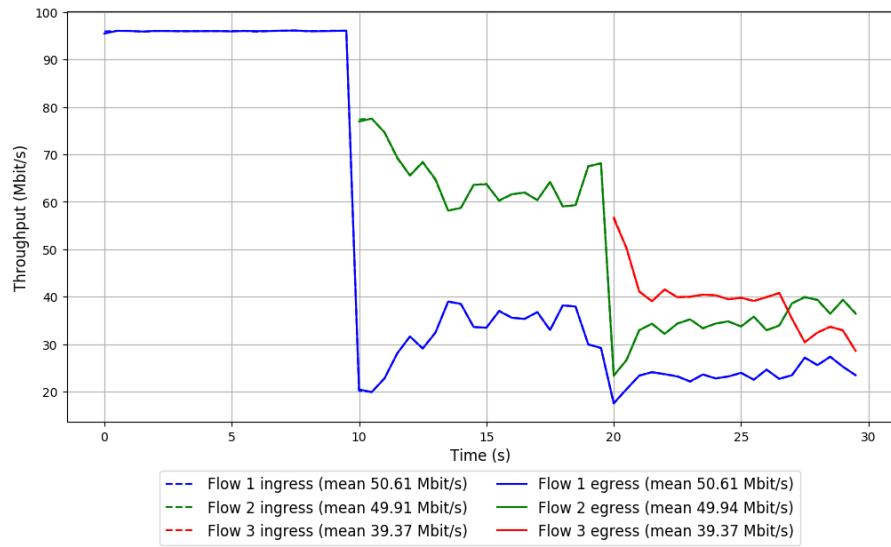


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-24 18:00:30
End at: 2018-04-24 18:01:00
Local clock offset: 4.009 ms
Remote clock offset: -5.675 ms

# Below is generated by plot.py at 2018-04-24 23:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 3.059 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.61 Mbit/s
95th percentile per-packet one-way delay: 2.884 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 3.189 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 3.174 ms
Loss rate: 0.02%
```

Run 4: Report of TCP Vegas — Data Link

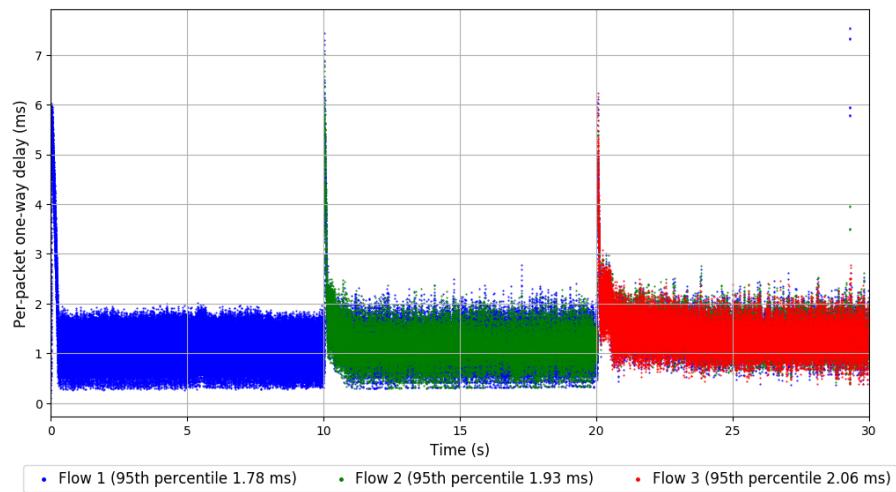
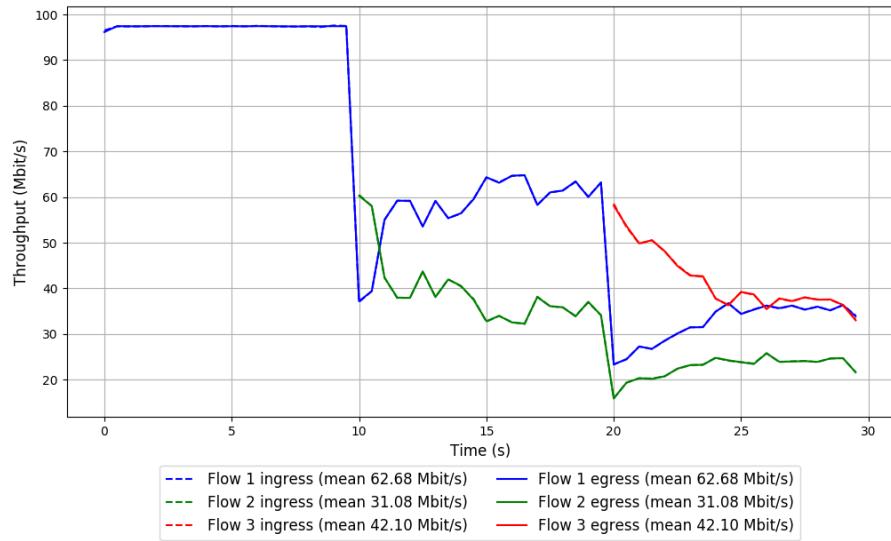


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-24 18:19:39
End at: 2018-04-24 18:20:09
Local clock offset: 0.854 ms
Remote clock offset: -5.423 ms

# Below is generated by plot.py at 2018-04-24 23:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 1.869 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 62.68 Mbit/s
95th percentile per-packet one-way delay: 1.783 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 1.925 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 42.10 Mbit/s
95th percentile per-packet one-way delay: 2.065 ms
Loss rate: 0.02%
```

Run 5: Report of TCP Vegas — Data Link

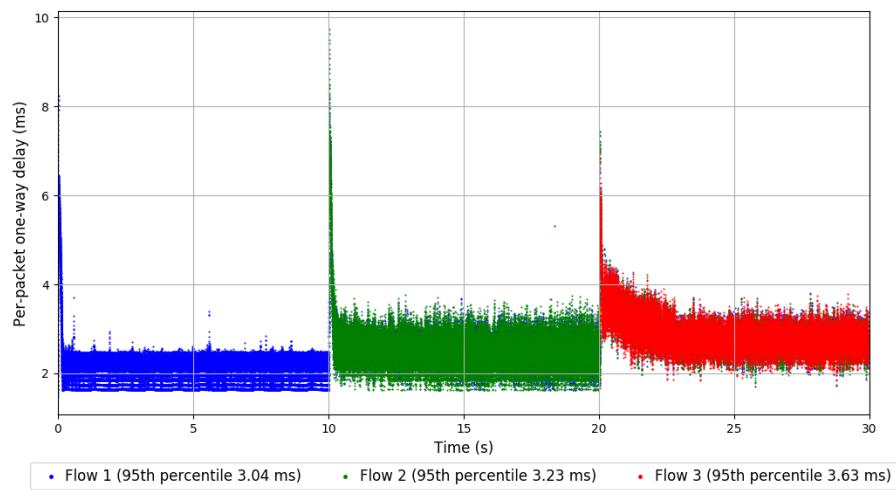
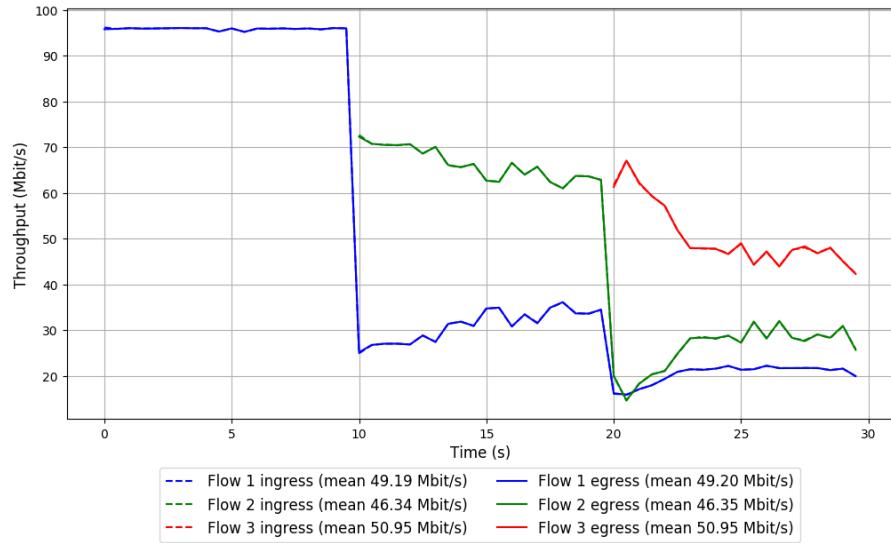


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-24 18:38:49
End at: 2018-04-24 18:39:19
Local clock offset: 0.236 ms
Remote clock offset: -5.262 ms

# Below is generated by plot.py at 2018-04-24 23:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 3.288 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 3.041 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 3.228 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 50.95 Mbit/s
95th percentile per-packet one-way delay: 3.630 ms
Loss rate: 0.04%
```

Run 6: Report of TCP Vegas — Data Link

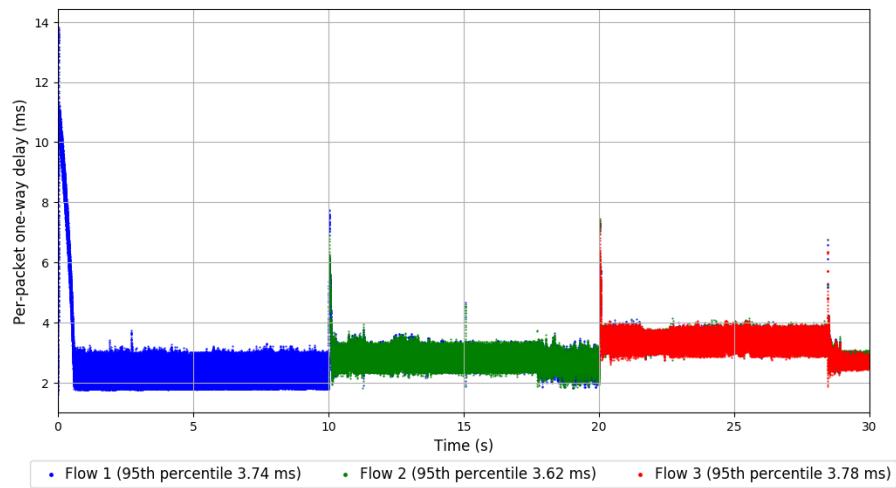
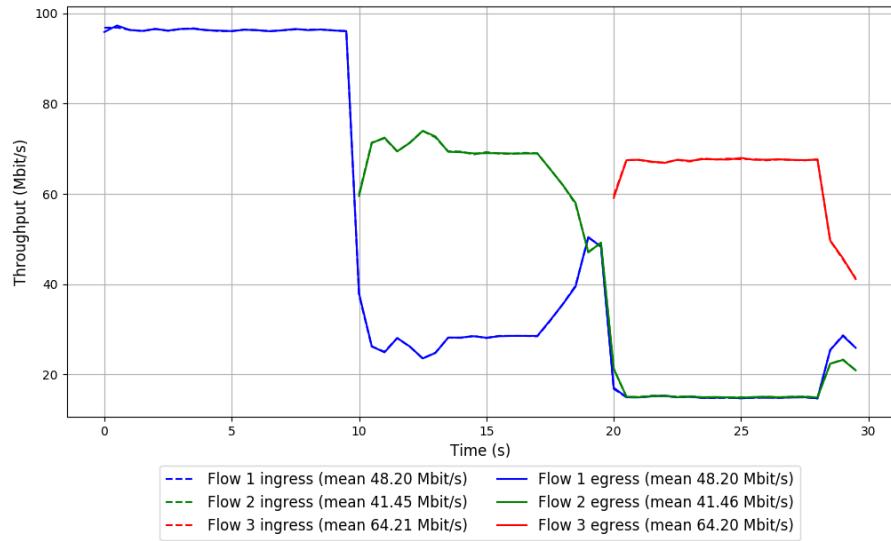


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-24 18:57:59
End at: 2018-04-24 18:58:29
Local clock offset: -3.645 ms
Remote clock offset: -5.38 ms

# Below is generated by plot.py at 2018-04-24 23:36:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 3.733 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 3.740 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 41.46 Mbit/s
95th percentile per-packet one-way delay: 3.624 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 64.20 Mbit/s
95th percentile per-packet one-way delay: 3.779 ms
Loss rate: 0.02%
```

Run 7: Report of TCP Vegas — Data Link

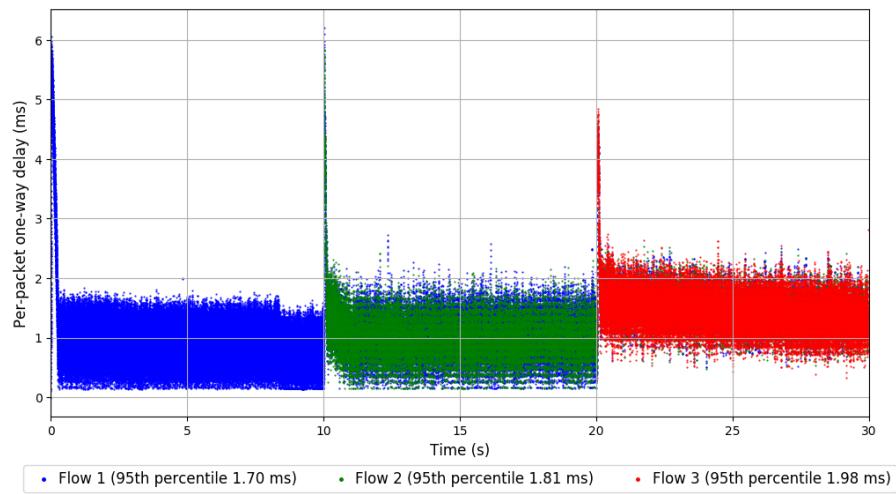
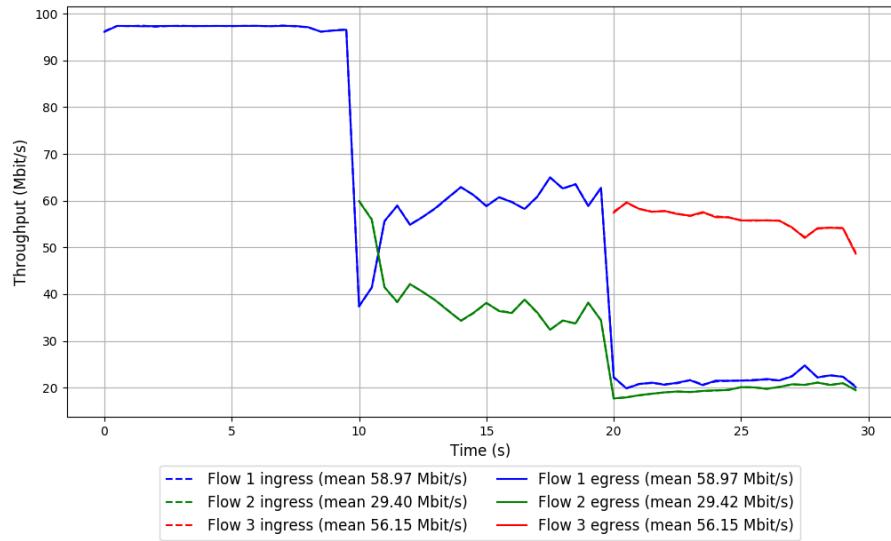


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-24 19:17:09
End at: 2018-04-24 19:17:39
Local clock offset: -7.616 ms
Remote clock offset: -5.437 ms

# Below is generated by plot.py at 2018-04-24 23:36:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 1.828 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 1.703 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 1.811 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 56.15 Mbit/s
95th percentile per-packet one-way delay: 1.978 ms
Loss rate: 0.05%
```

Run 8: Report of TCP Vegas — Data Link

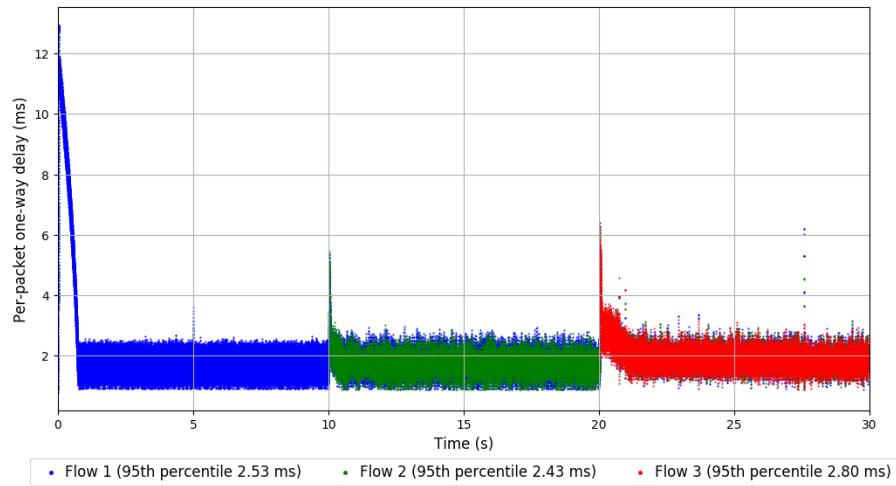
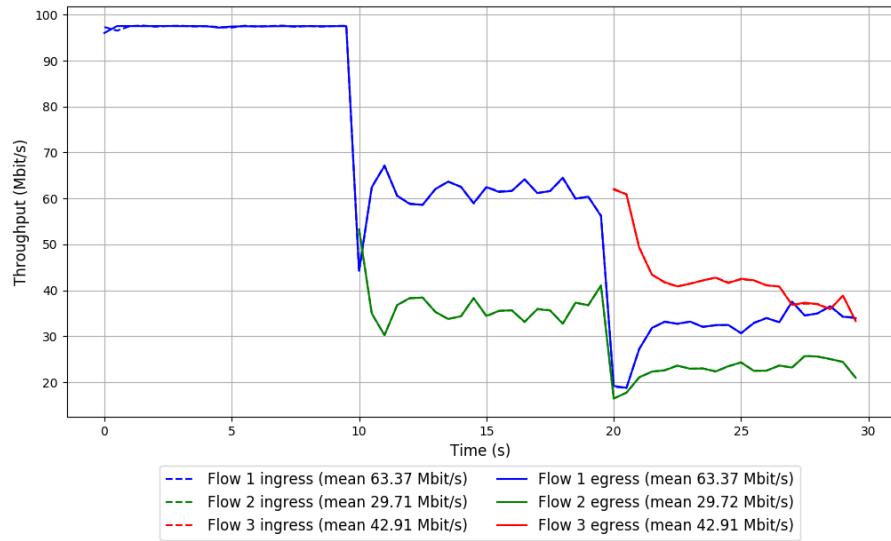


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-24 19:36:20
End at: 2018-04-24 19:36:50
Local clock offset: -5.338 ms
Remote clock offset: -5.549 ms

# Below is generated by plot.py at 2018-04-24 23:37:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 2.559 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.37 Mbit/s
95th percentile per-packet one-way delay: 2.531 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 2.799 ms
Loss rate: 0.02%
```

Run 9: Report of TCP Vegas — Data Link

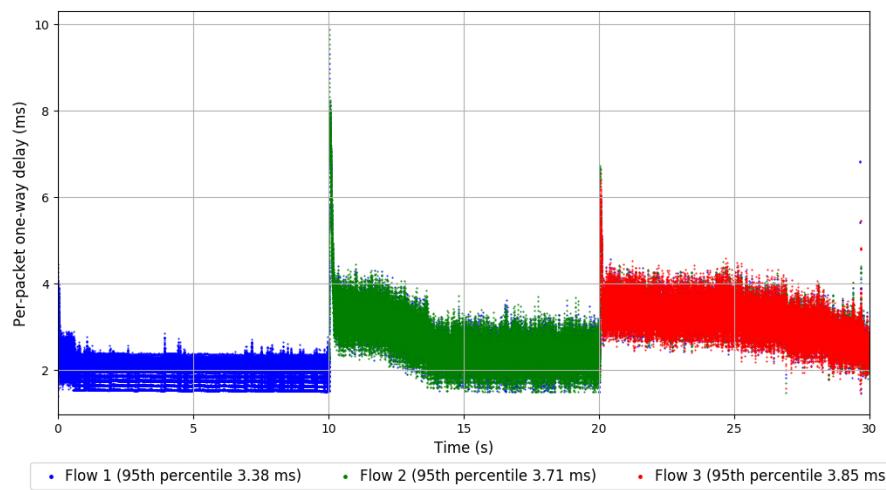
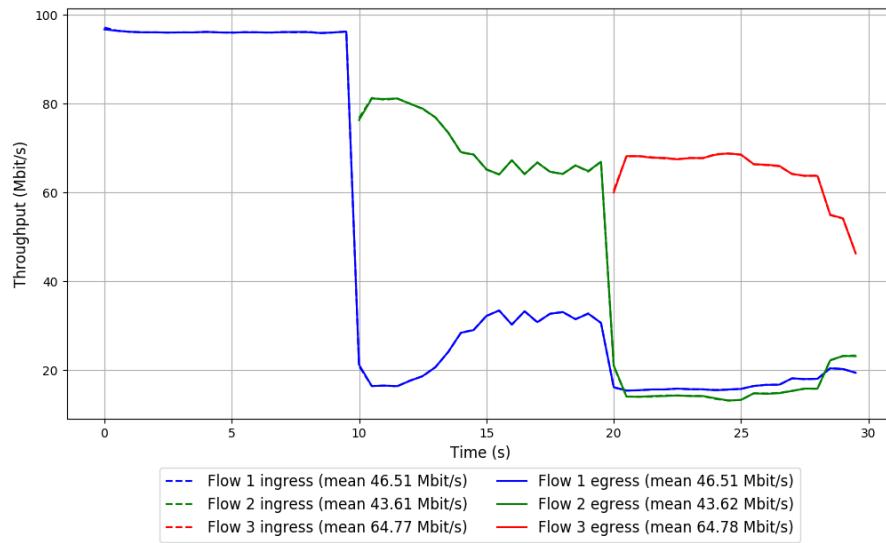


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-24 19:55:29
End at: 2018-04-24 19:55:59
Local clock offset: -4.755 ms
Remote clock offset: -6.699 ms

# Below is generated by plot.py at 2018-04-24 23:37:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 3.681 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 46.51 Mbit/s
95th percentile per-packet one-way delay: 3.378 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 43.62 Mbit/s
95th percentile per-packet one-way delay: 3.712 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 3.847 ms
Loss rate: 0.03%
```

Run 10: Report of TCP Vegas — Data Link

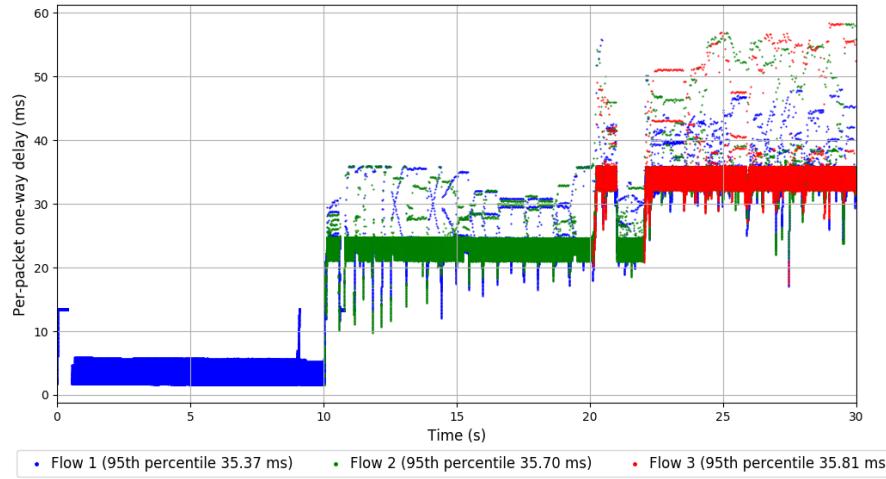
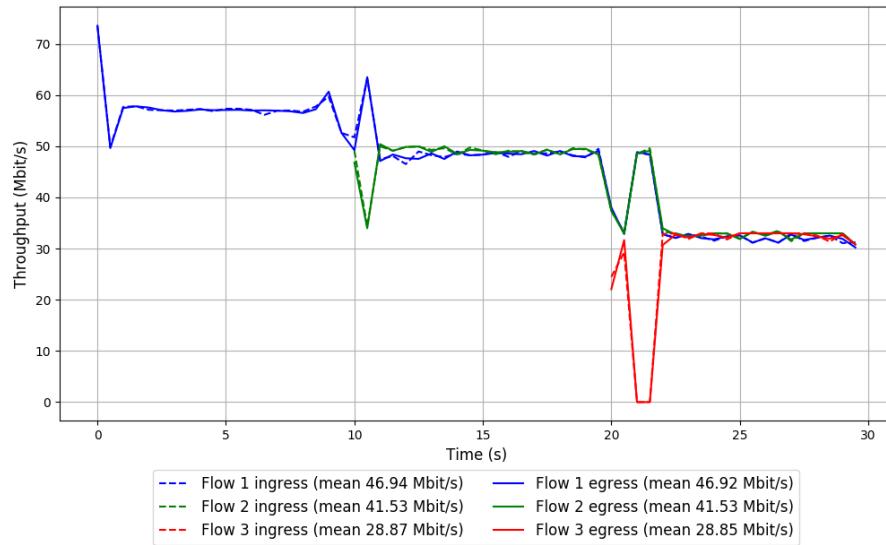


Run 1: Statistics of Verus

```
Start at: 2018-04-24 17:04:14
End at: 2018-04-24 17:04:44
Local clock offset: -3.989 ms
Remote clock offset: -6.59 ms

# Below is generated by plot.py at 2018-04-24 23:37:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.12 Mbit/s
95th percentile per-packet one-way delay: 35.706 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 35.366 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 35.695 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 35.809 ms
Loss rate: 0.39%
```

Run 1: Report of Verus — Data Link

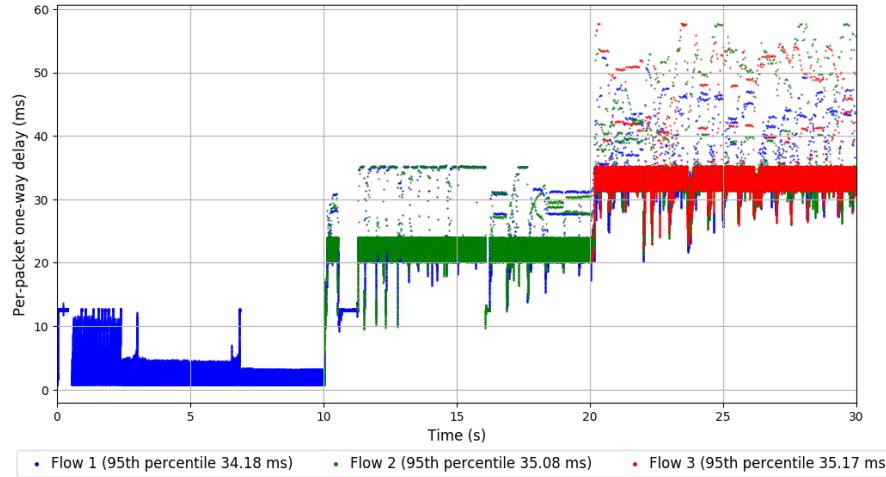
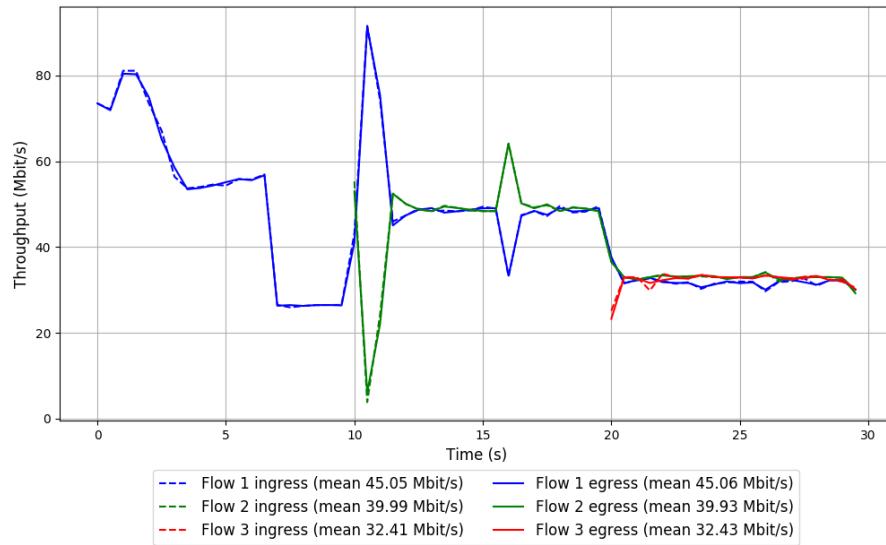


Run 2: Statistics of Verus

```
Start at: 2018-04-24 17:23:23
End at: 2018-04-24 17:23:53
Local clock offset: 0.187 ms
Remote clock offset: -6.859 ms

# Below is generated by plot.py at 2018-04-24 23:37:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.37 Mbit/s
95th percentile per-packet one-way delay: 35.066 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: 34.178 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 35.082 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 35.169 ms
Loss rate: 0.35%
```

Run 2: Report of Verus — Data Link

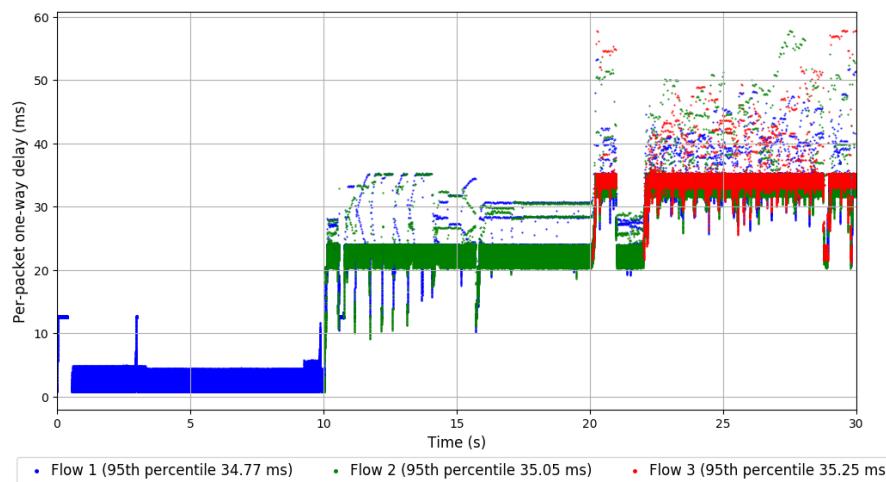
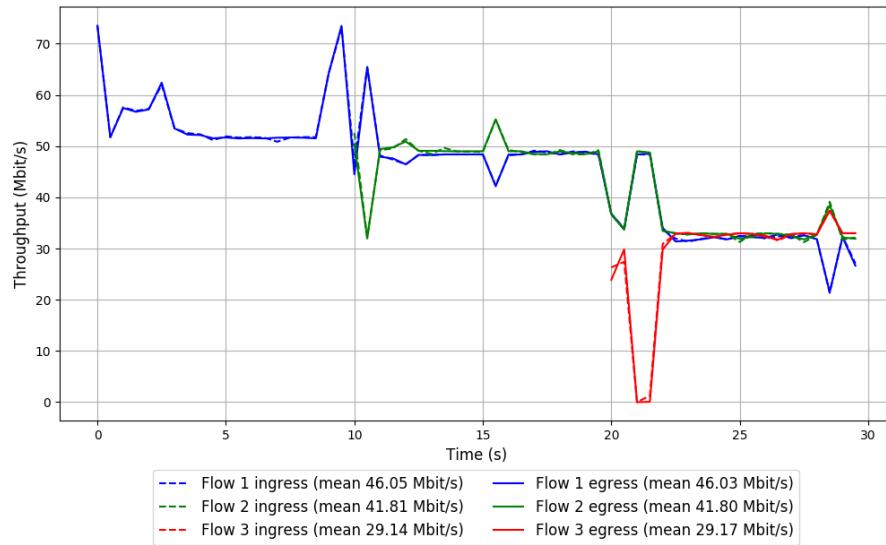


Run 3: Statistics of Verus

```
Start at: 2018-04-24 17:42:32
End at: 2018-04-24 17:43:02
Local clock offset: 1.956 ms
Remote clock offset: -5.968 ms

# Below is generated by plot.py at 2018-04-24 23:37:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.51 Mbit/s
95th percentile per-packet one-way delay: 35.148 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 46.03 Mbit/s
95th percentile per-packet one-way delay: 34.772 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 41.80 Mbit/s
95th percentile per-packet one-way delay: 35.048 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 35.247 ms
Loss rate: 0.39%
```

Run 3: Report of Verus — Data Link

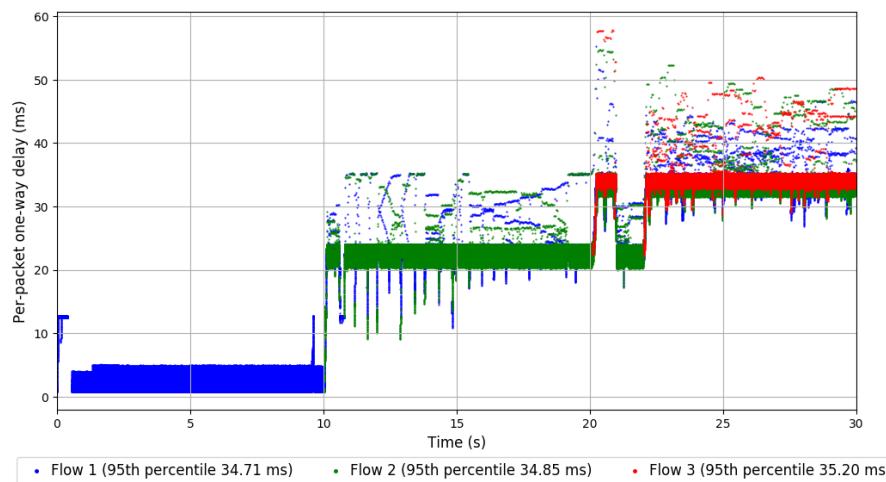
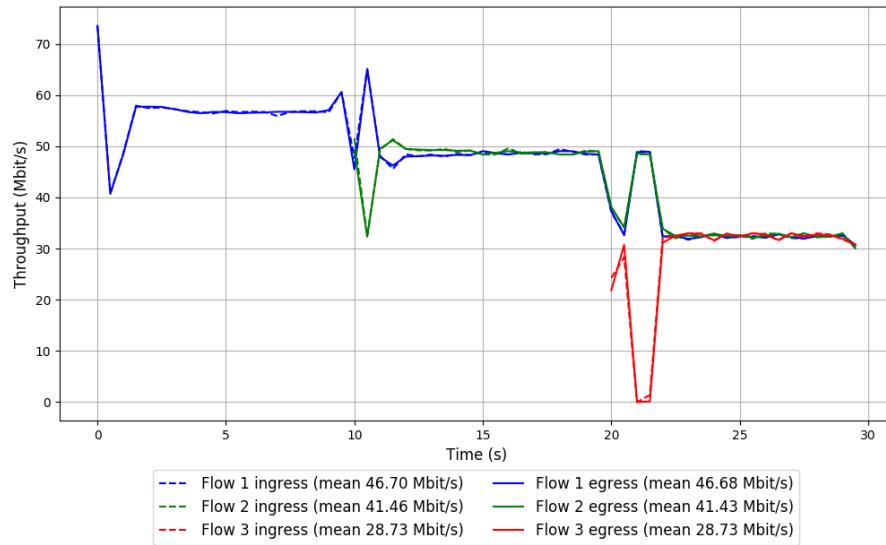


Run 4: Statistics of Verus

```
Start at: 2018-04-24 18:01:38
End at: 2018-04-24 18:02:08
Local clock offset: 3.319 ms
Remote clock offset: -5.662 ms

# Below is generated by plot.py at 2018-04-24 23:37:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.77 Mbit/s
95th percentile per-packet one-way delay: 35.093 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 46.68 Mbit/s
95th percentile per-packet one-way delay: 34.706 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 34.852 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 35.200 ms
Loss rate: 0.39%
```

Run 4: Report of Verus — Data Link

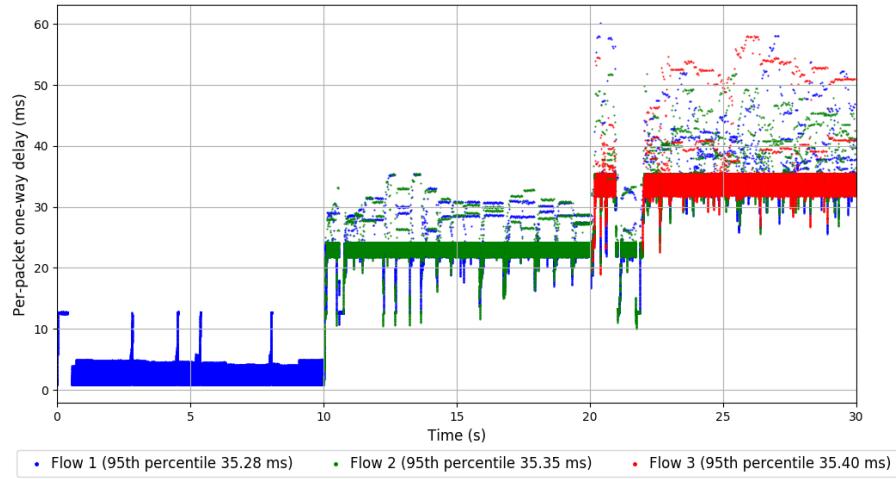
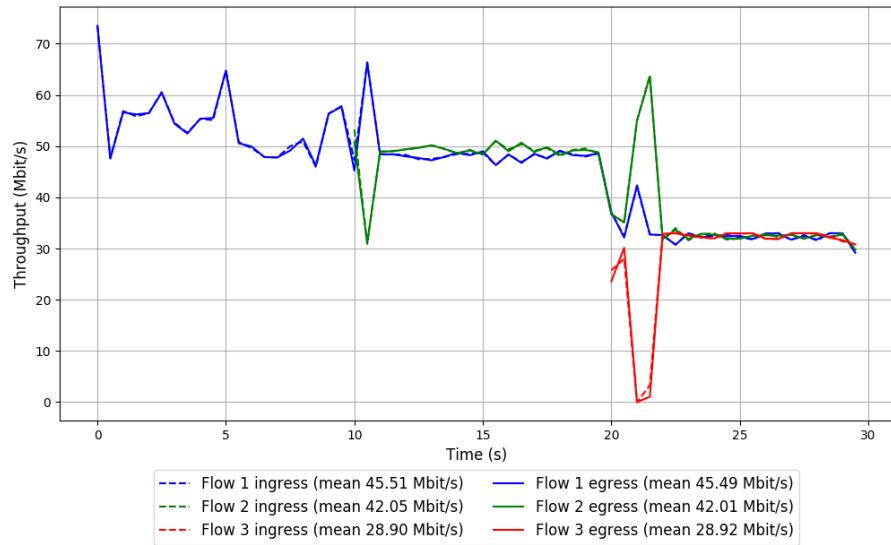


Run 5: Statistics of Verus

```
Start at: 2018-04-24 18:20:47
End at: 2018-04-24 18:21:17
Local clock offset: 1.263 ms
Remote clock offset: -5.392 ms

# Below is generated by plot.py at 2018-04-24 23:38:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.03 Mbit/s
95th percentile per-packet one-way delay: 35.335 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 45.49 Mbit/s
95th percentile per-packet one-way delay: 35.280 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 35.346 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 35.396 ms
Loss rate: 0.39%
```

Run 5: Report of Verus — Data Link

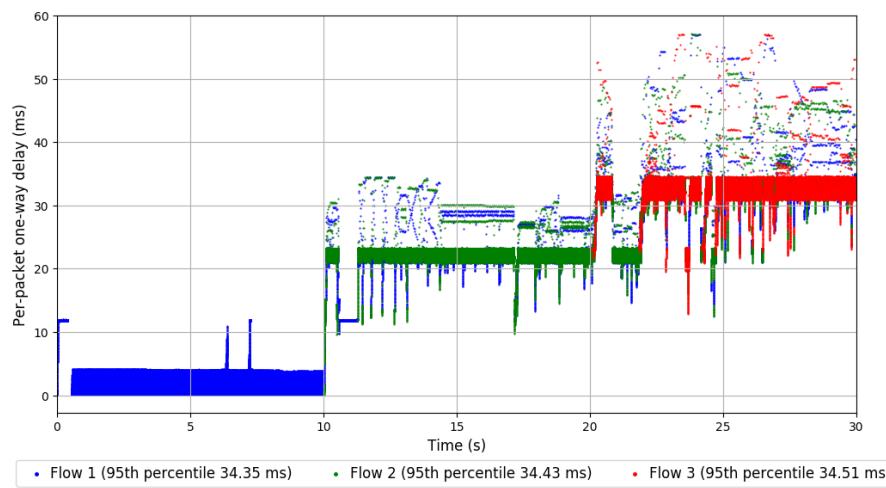
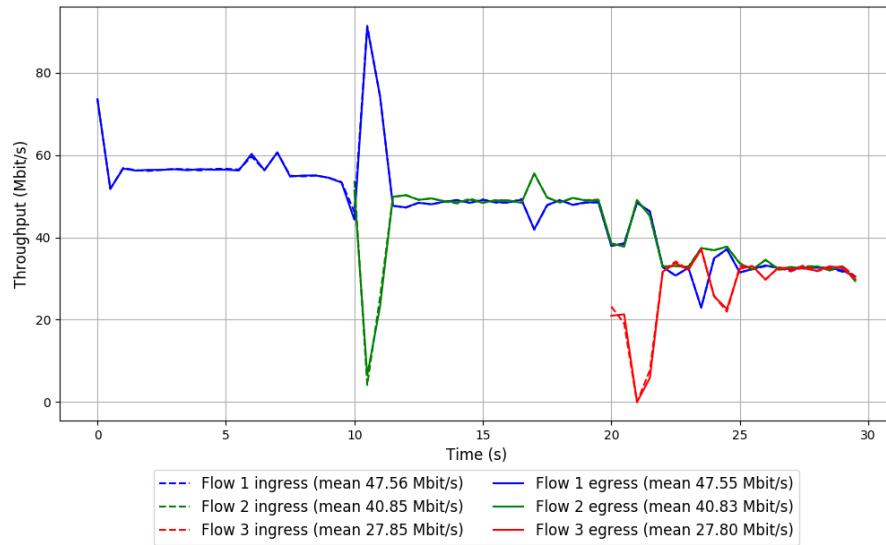


Run 6: Statistics of Verus

```
Start at: 2018-04-24 18:39:57
End at: 2018-04-24 18:40:27
Local clock offset: -1.294 ms
Remote clock offset: -5.282 ms

# Below is generated by plot.py at 2018-04-24 23:38:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.92 Mbit/s
95th percentile per-packet one-way delay: 34.428 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 34.355 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 34.434 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 34.512 ms
Loss rate: 0.52%
```

Run 6: Report of Verus — Data Link

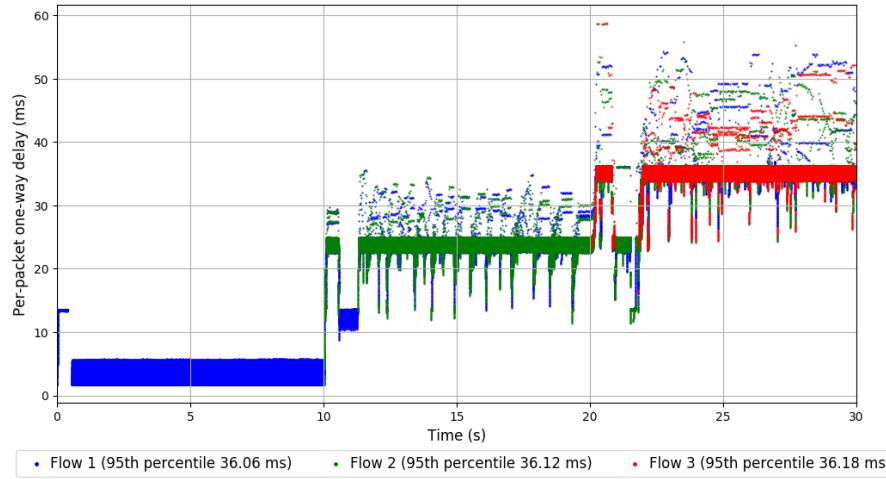
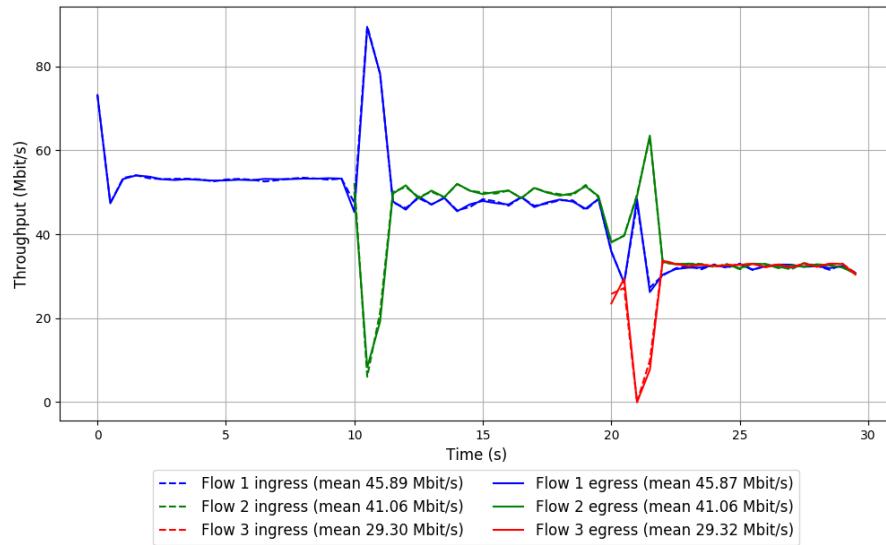


Run 7: Statistics of Verus

```
Start at: 2018-04-24 18:59:07
End at: 2018-04-24 18:59:37
Local clock offset: -3.878 ms
Remote clock offset: -5.325 ms

# Below is generated by plot.py at 2018-04-24 23:38:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.90 Mbit/s
95th percentile per-packet one-way delay: 36.114 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 36.064 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 36.119 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 36.179 ms
Loss rate: 0.45%
```

Run 7: Report of Verus — Data Link

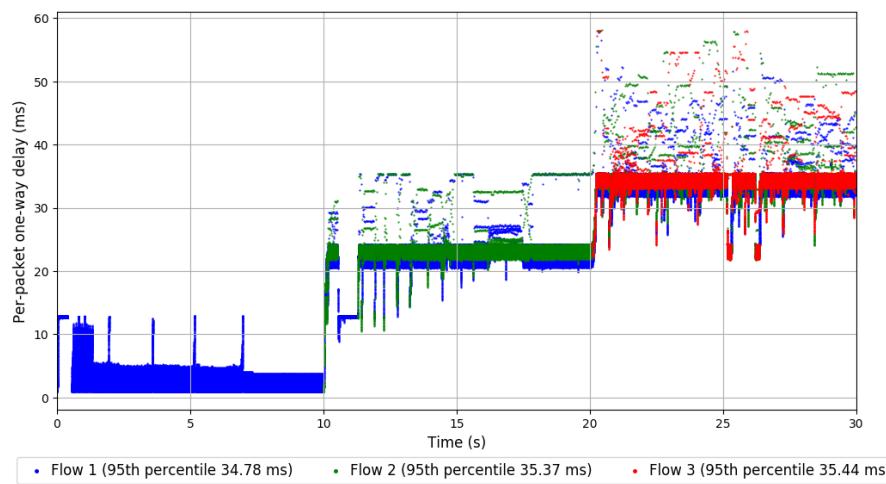
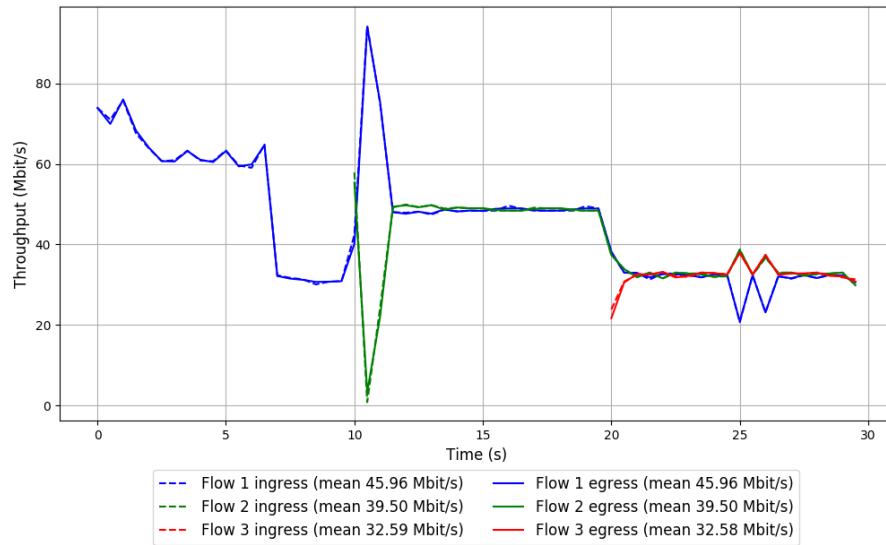


Run 8: Statistics of Verus

```
Start at: 2018-04-24 19:18:17
End at: 2018-04-24 19:18:47
Local clock offset: -6.898 ms
Remote clock offset: -5.474 ms

# Below is generated by plot.py at 2018-04-24 23:38:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 35.362 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 34.779 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 35.371 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 35.437 ms
Loss rate: 0.43%
```

Run 8: Report of Verus — Data Link

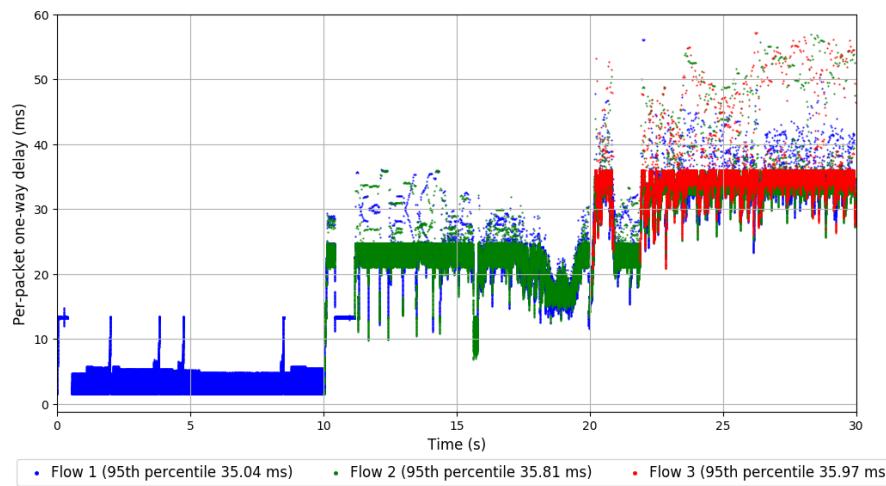
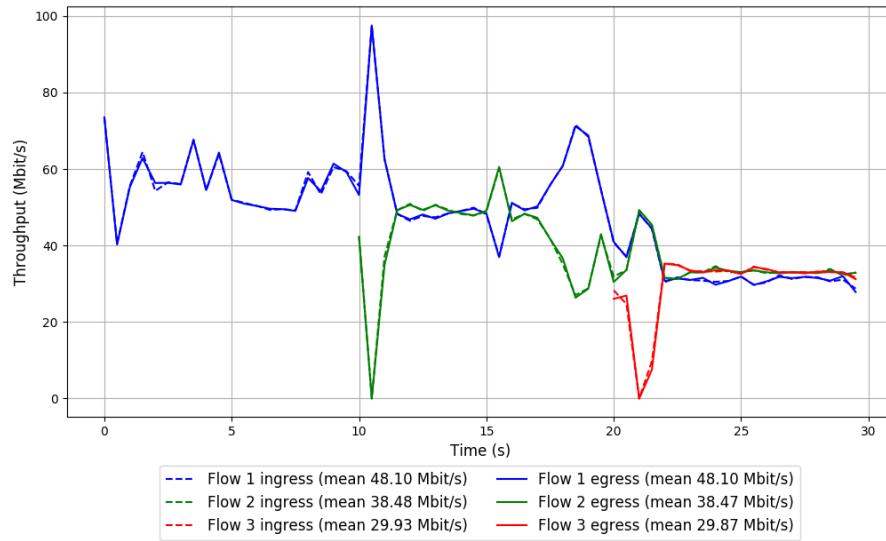


Run 9: Statistics of Verus

```
Start at: 2018-04-24 19:37:28
End at: 2018-04-24 19:37:58
Local clock offset: -4.565 ms
Remote clock offset: -5.483 ms

# Below is generated by plot.py at 2018-04-24 23:38:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.62 Mbit/s
95th percentile per-packet one-way delay: 35.805 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 48.10 Mbit/s
95th percentile per-packet one-way delay: 35.036 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 35.810 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 35.965 ms
Loss rate: 0.44%
```

Run 9: Report of Verus — Data Link

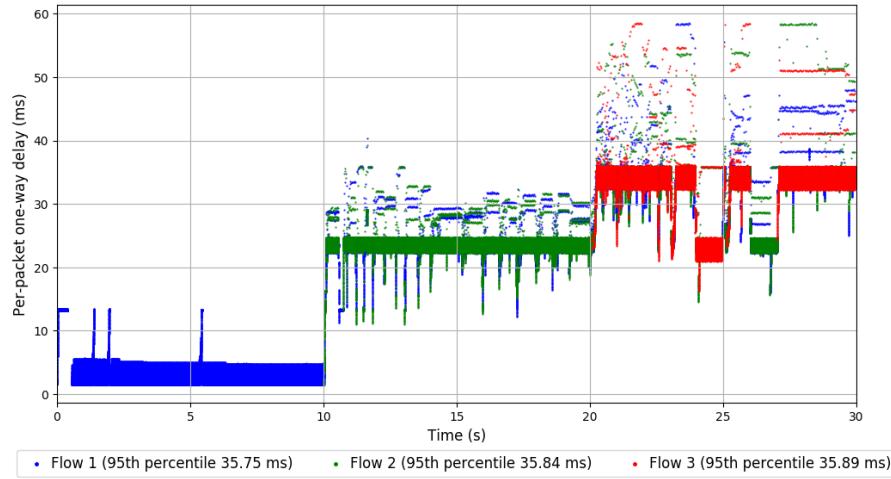
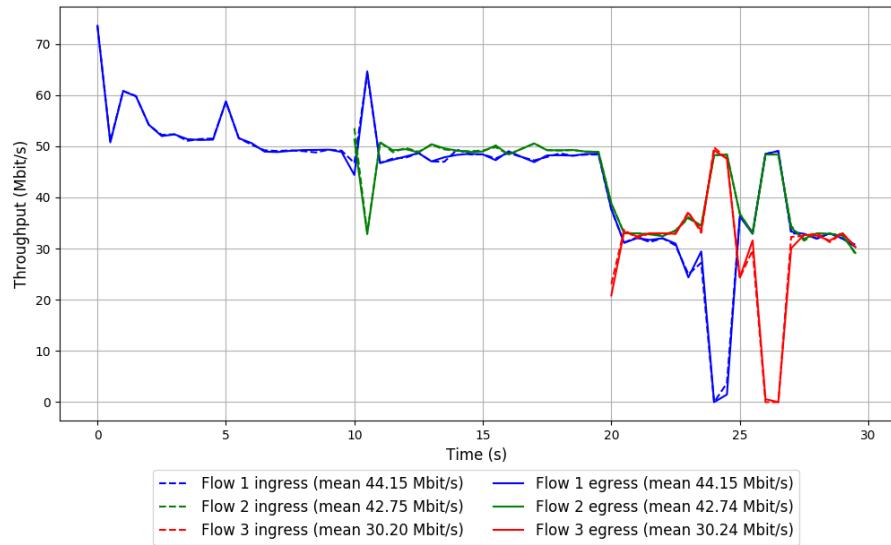


Run 10: Statistics of Verus

```
Start at: 2018-04-24 19:56:37
End at: 2018-04-24 19:57:07
Local clock offset: -4.657 ms
Remote clock offset: -6.786 ms

# Below is generated by plot.py at 2018-04-24 23:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.60 Mbit/s
95th percentile per-packet one-way delay: 35.830 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 35.749 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: 35.844 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 35.894 ms
Loss rate: 0.37%
```

Run 10: Report of Verus — Data Link

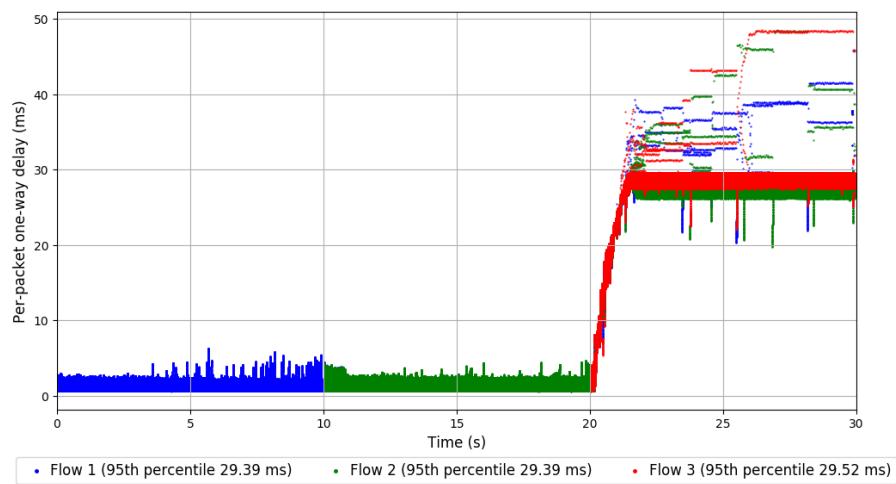
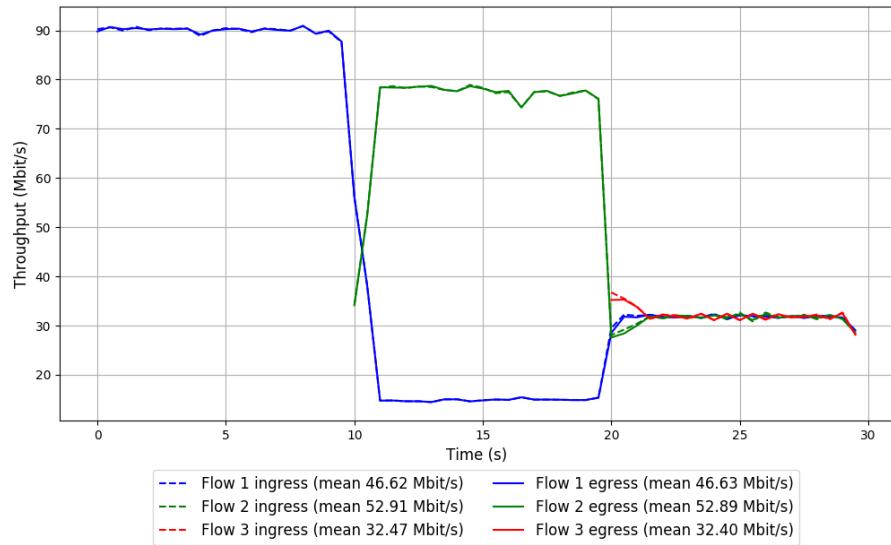


Run 1: Statistics of Copa

```
Start at: 2018-04-24 17:13:04
End at: 2018-04-24 17:13:34
Local clock offset: -1.666 ms
Remote clock offset: -6.771 ms

# Below is generated by plot.py at 2018-04-24 23:39:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.52 Mbit/s
95th percentile per-packet one-way delay: 29.449 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 29.392 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 29.392 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 29.525 ms
Loss rate: 0.30%
```

Run 1: Report of Copa — Data Link

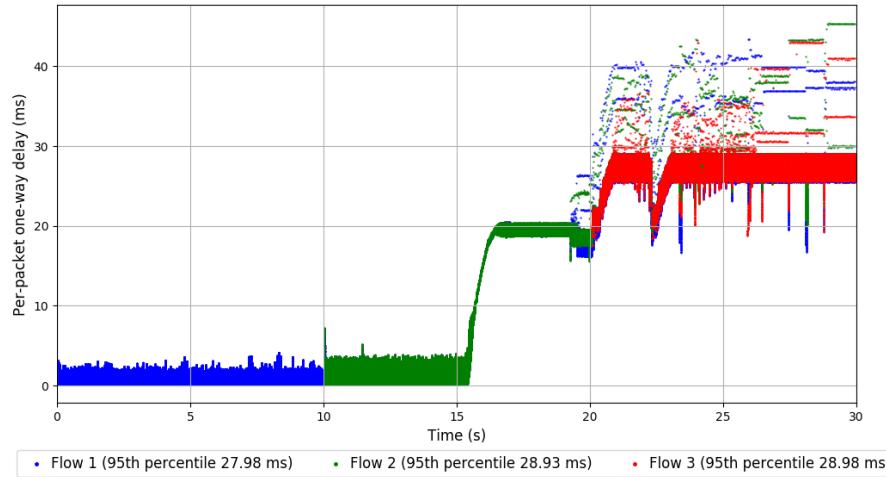
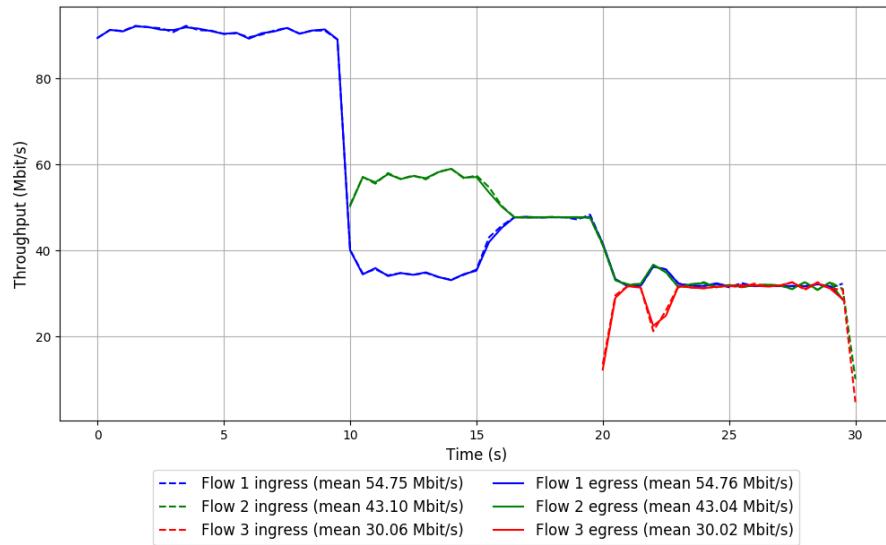


Run 2: Statistics of Copa

```
Start at: 2018-04-24 17:32:14
End at: 2018-04-24 17:32:44
Local clock offset: 0.312 ms
Remote clock offset: -6.547 ms

# Below is generated by plot.py at 2018-04-24 23:40:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 28.877 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 54.76 Mbit/s
95th percentile per-packet one-way delay: 27.975 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 43.04 Mbit/s
95th percentile per-packet one-way delay: 28.932 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 30.02 Mbit/s
95th percentile per-packet one-way delay: 28.984 ms
Loss rate: 1.46%
```

Run 2: Report of Copa — Data Link

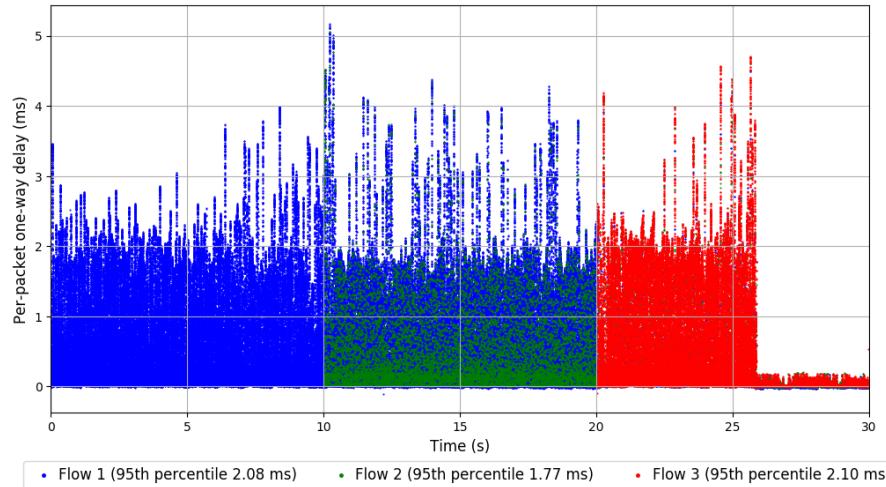
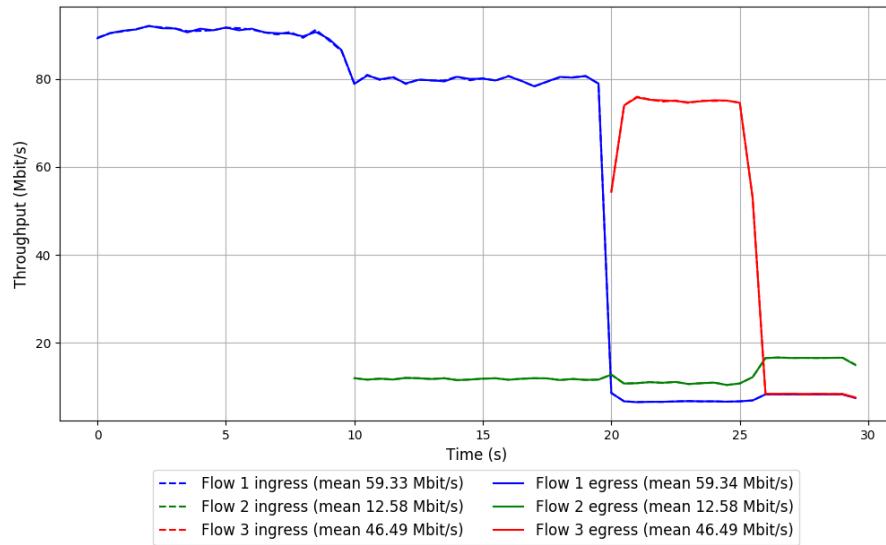


Run 3: Statistics of Copa

```
Start at: 2018-04-24 17:51:22
End at: 2018-04-24 17:51:52
Local clock offset: 1.795 ms
Remote clock offset: -5.783 ms

# Below is generated by plot.py at 2018-04-24 23:40:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 2.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 2.085 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 1.774 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 2.099 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

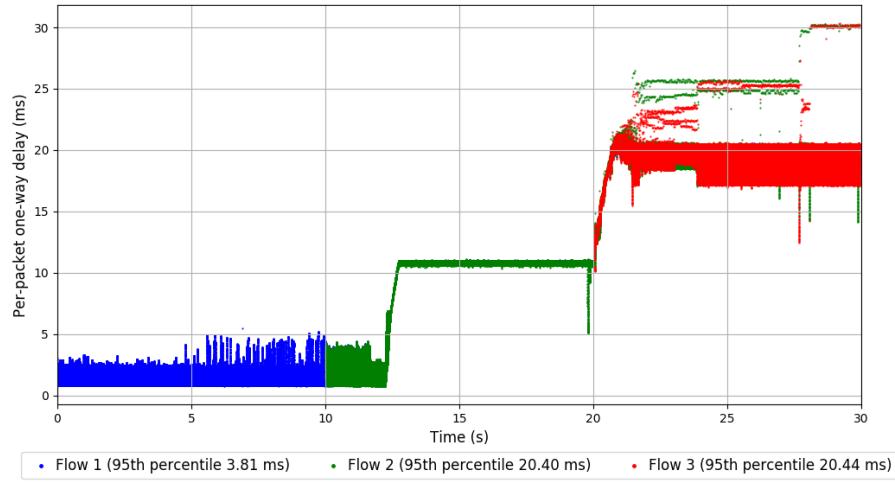
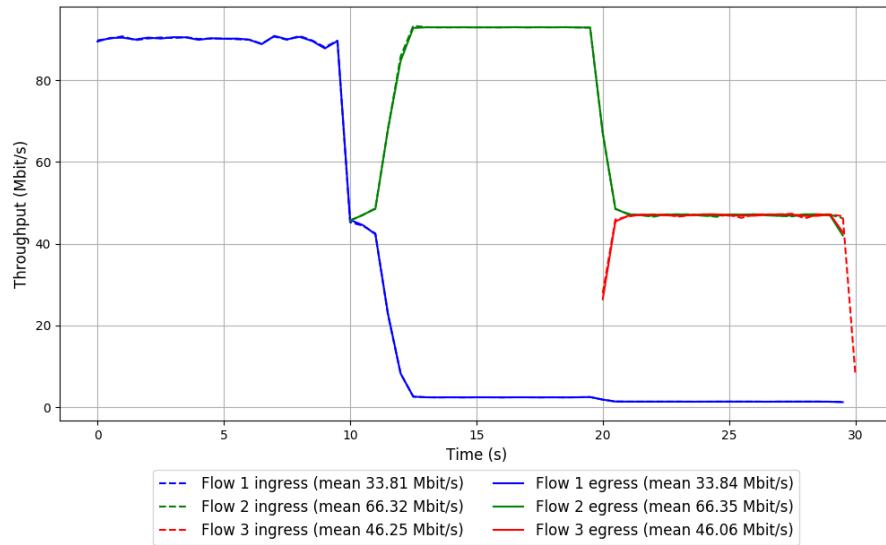


Run 4: Statistics of Copa

```
Start at: 2018-04-24 18:10:29
End at: 2018-04-24 18:10:59
Local clock offset: 3.952 ms
Remote clock offset: -5.538 ms

# Below is generated by plot.py at 2018-04-24 23:40:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 20.388 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 3.813 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 66.35 Mbit/s
95th percentile per-packet one-way delay: 20.404 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 46.06 Mbit/s
95th percentile per-packet one-way delay: 20.443 ms
Loss rate: 1.48%
```

Run 4: Report of Copa — Data Link

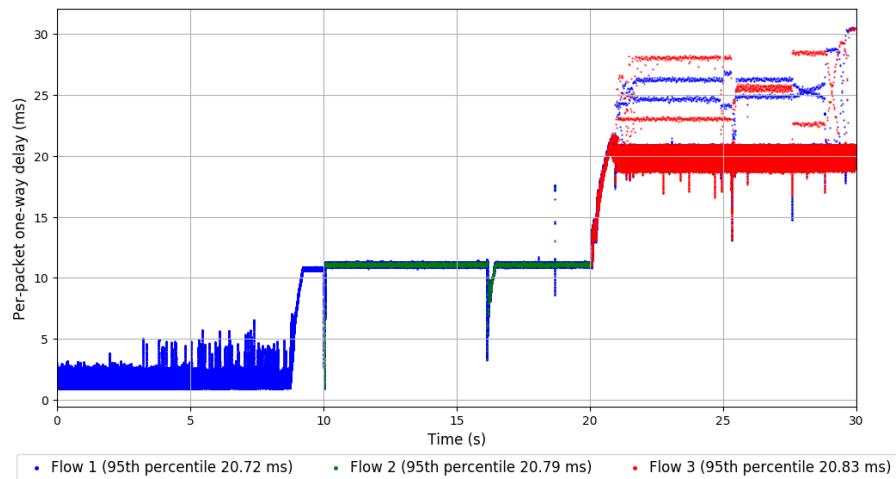
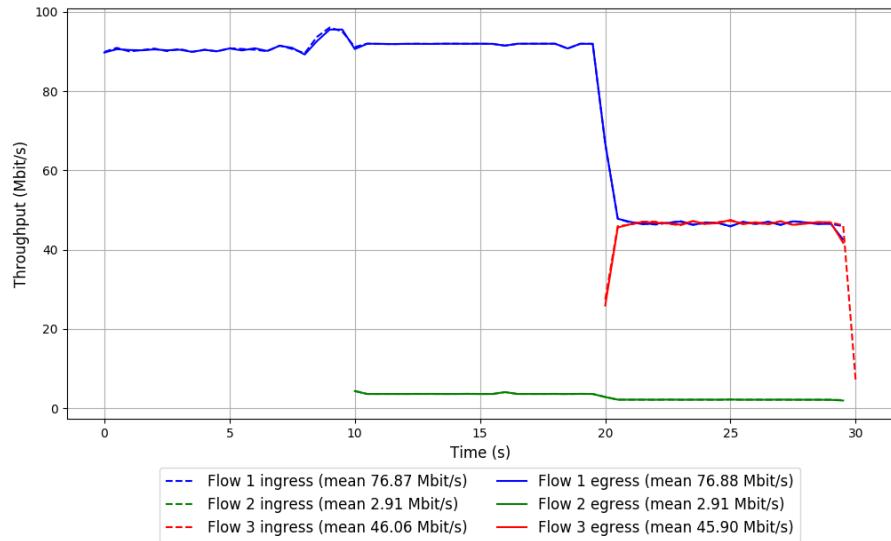


Run 5: Statistics of Copa

```
Start at: 2018-04-24 18:29:39
End at: 2018-04-24 18:30:09
Local clock offset: 0.061 ms
Remote clock offset: -5.301 ms

# Below is generated by plot.py at 2018-04-24 23:40:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 20.759 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 20.720 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 20.793 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 20.833 ms
Loss rate: 1.43%
```

Run 5: Report of Copa — Data Link

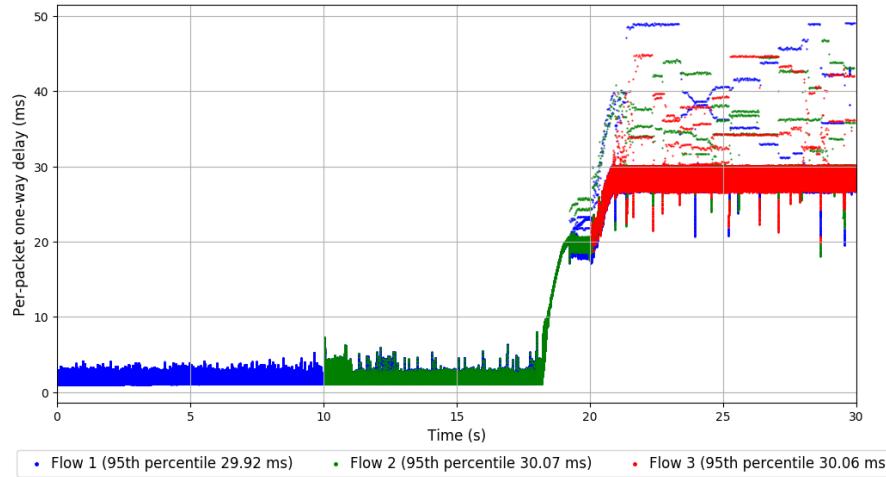
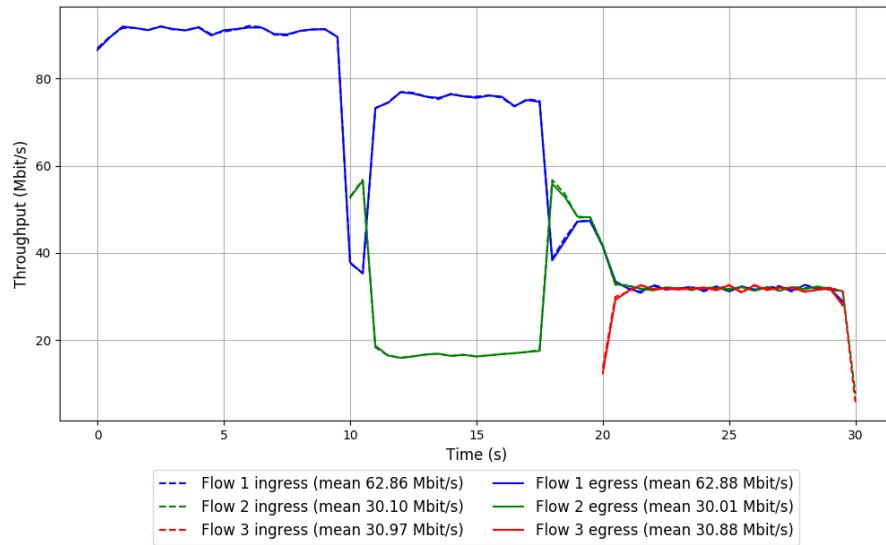


Run 6: Statistics of Copa

```
Start at: 2018-04-24 18:48:50
End at: 2018-04-24 18:49:20
Local clock offset: -1.628 ms
Remote clock offset: -5.364 ms

# Below is generated by plot.py at 2018-04-24 23:40:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 30.010 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 62.88 Mbit/s
95th percentile per-packet one-way delay: 29.922 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 30.01 Mbit/s
95th percentile per-packet one-way delay: 30.072 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 30.060 ms
Loss rate: 1.75%
```

Run 6: Report of Copa — Data Link

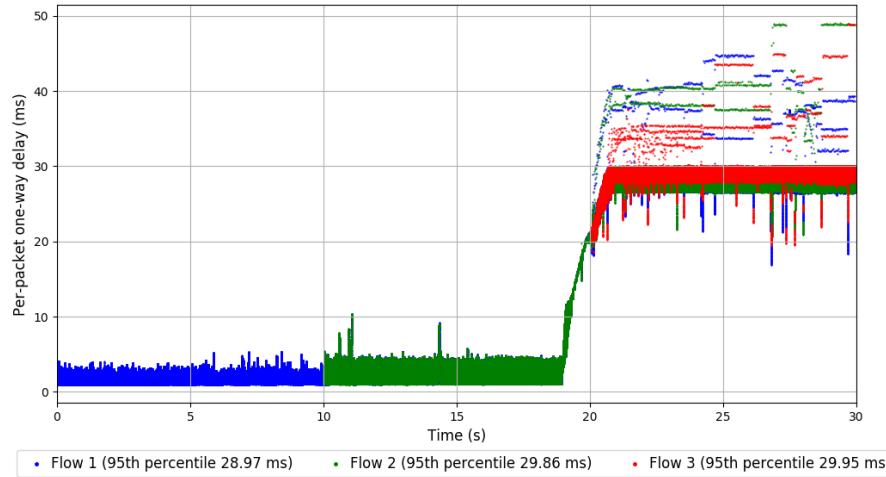
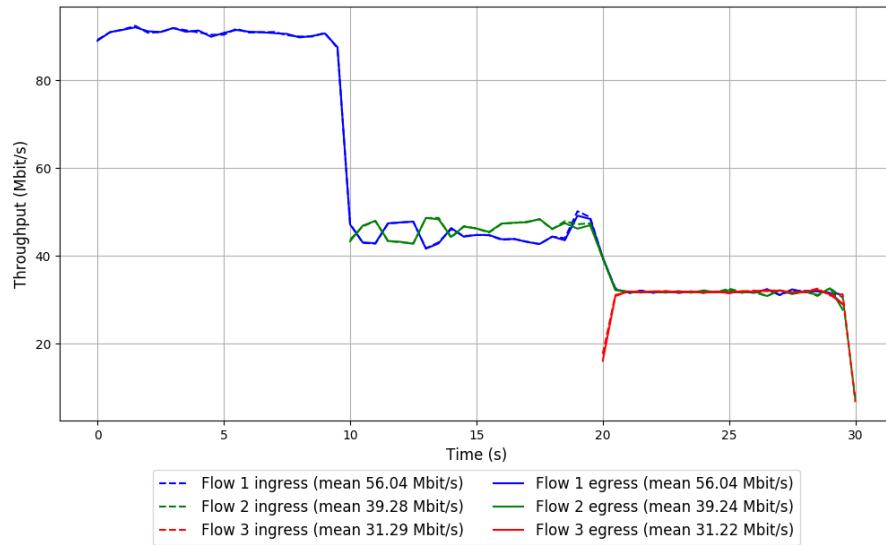


Run 7: Statistics of Copa

```
Start at: 2018-04-24 19:07:59
End at: 2018-04-24 19:08:29
Local clock offset: -5.896 ms
Remote clock offset: -5.334 ms

# Below is generated by plot.py at 2018-04-24 23:40:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 29.832 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 28.966 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 29.865 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 29.953 ms
Loss rate: 1.71%
```

Run 7: Report of Copa — Data Link

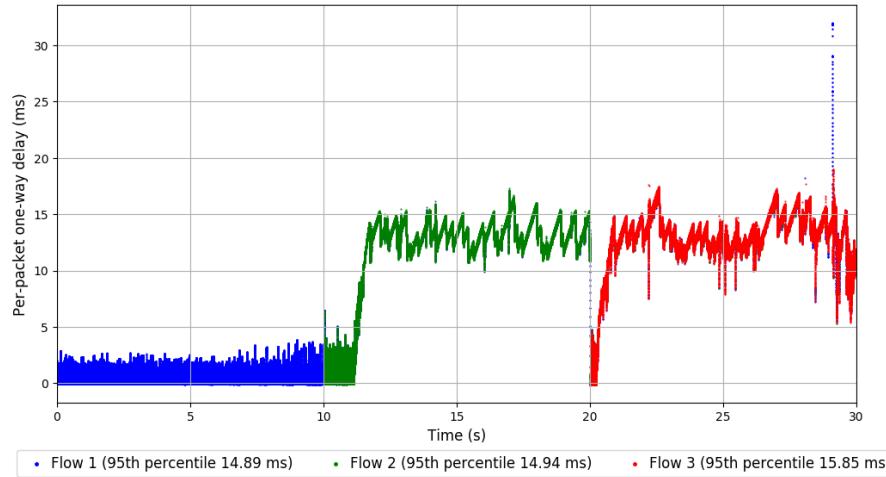
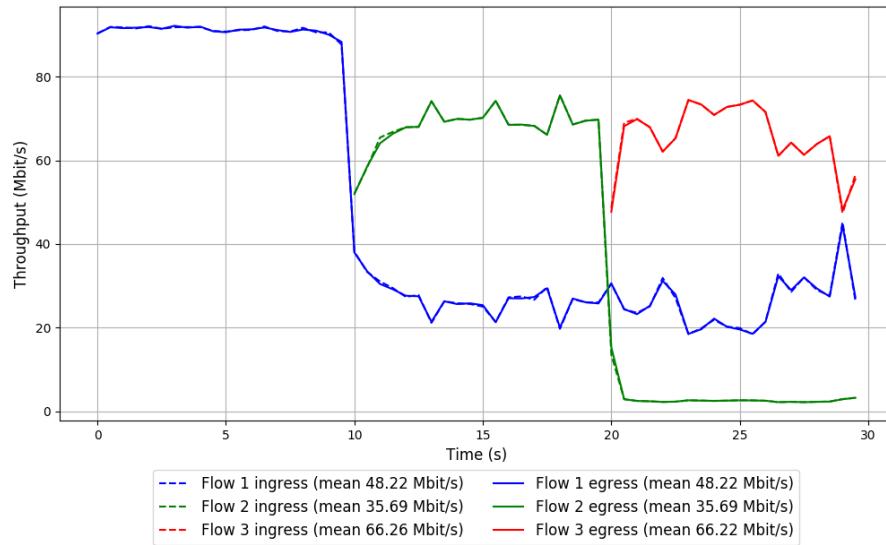


Run 8: Statistics of Copa

```
Start at: 2018-04-24 19:27:09
End at: 2018-04-24 19:27:39
Local clock offset: -6.794 ms
Remote clock offset: -5.48 ms

# Below is generated by plot.py at 2018-04-24 23:40:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 15.162 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 14.887 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 14.942 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 66.22 Mbit/s
95th percentile per-packet one-way delay: 15.847 ms
Loss rate: 0.16%
```

Run 8: Report of Copa — Data Link

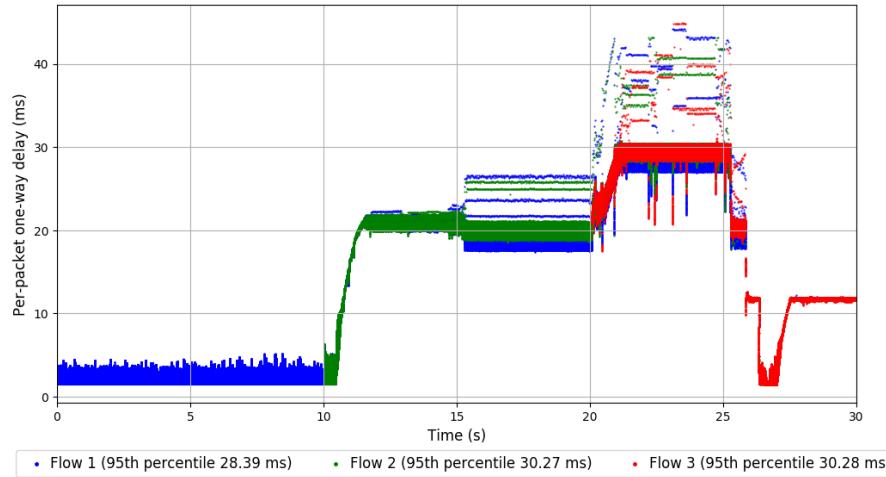
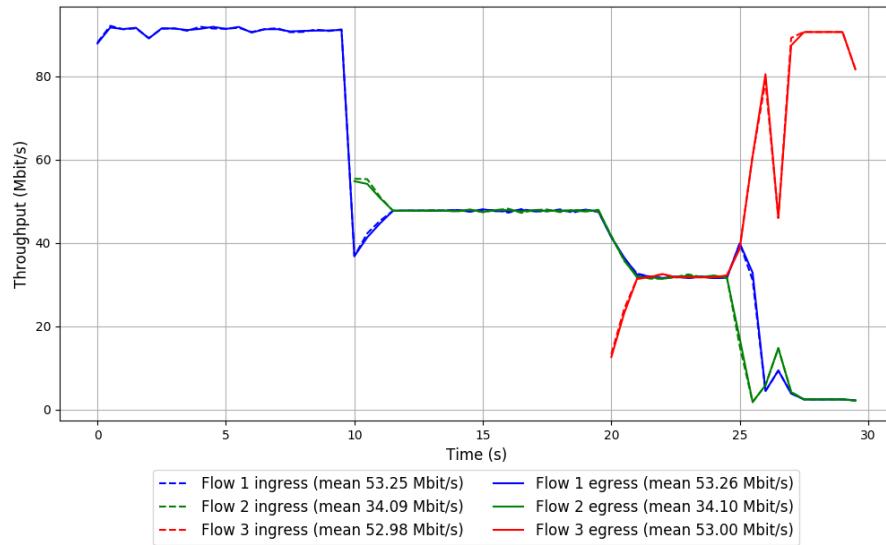


Run 9: Statistics of Copa

```
Start at: 2018-04-24 19:46:20
End at: 2018-04-24 19:46:50
Local clock offset: -4.576 ms
Remote clock offset: -5.731 ms

# Below is generated by plot.py at 2018-04-24 23:42:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 30.032 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 53.26 Mbit/s
95th percentile per-packet one-way delay: 28.395 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 30.275 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 53.00 Mbit/s
95th percentile per-packet one-way delay: 30.280 ms
Loss rate: 0.21%
```

Run 9: Report of Copa — Data Link

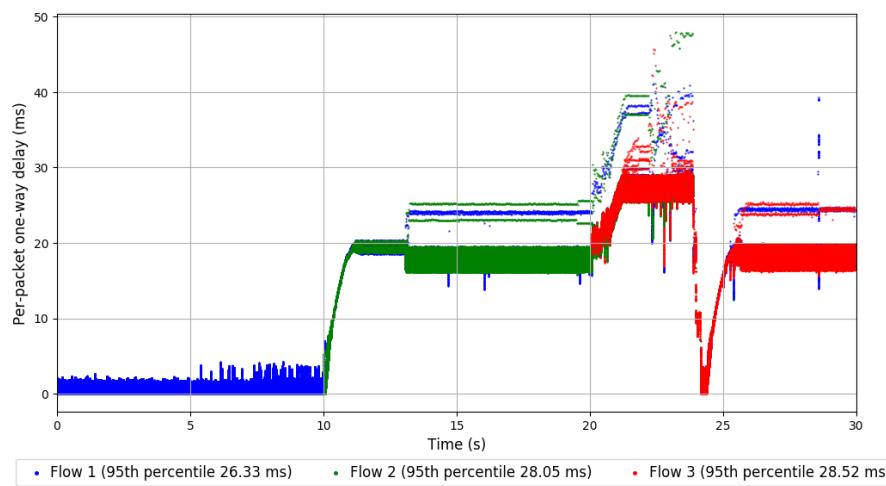
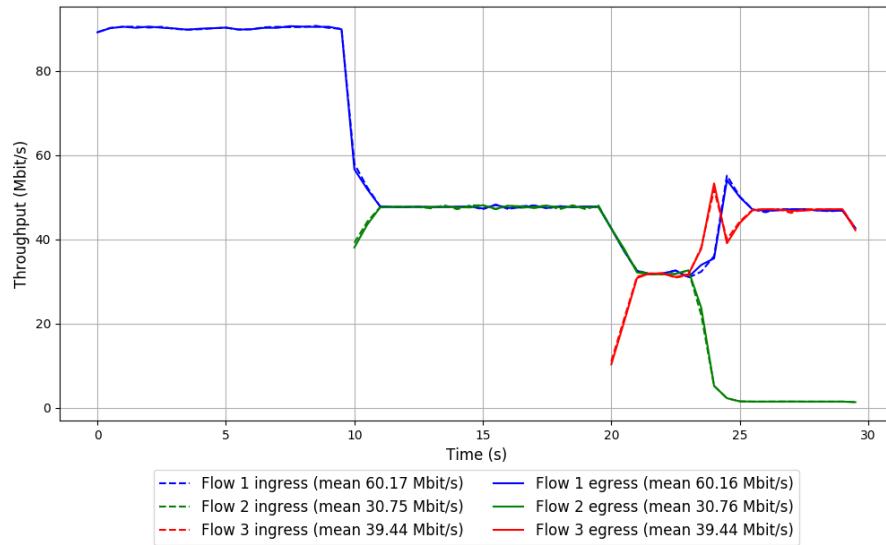


Run 10: Statistics of Copa

```
Start at: 2018-04-24 20:05:30
End at: 2018-04-24 20:06:00
Local clock offset: -5.81 ms
Remote clock offset: -7.221 ms

# Below is generated by plot.py at 2018-04-24 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 27.718 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 26.328 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 28.050 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 39.44 Mbit/s
95th percentile per-packet one-way delay: 28.521 ms
Loss rate: 0.29%
```

Run 10: Report of Copa — Data Link

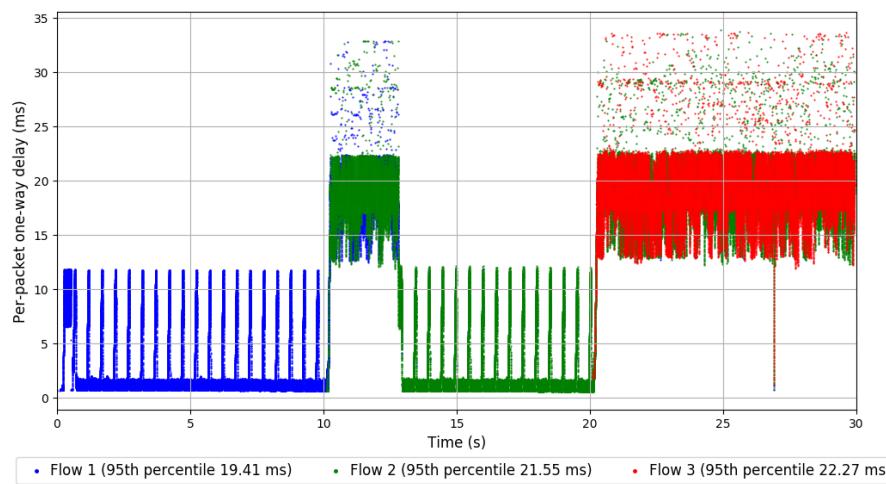
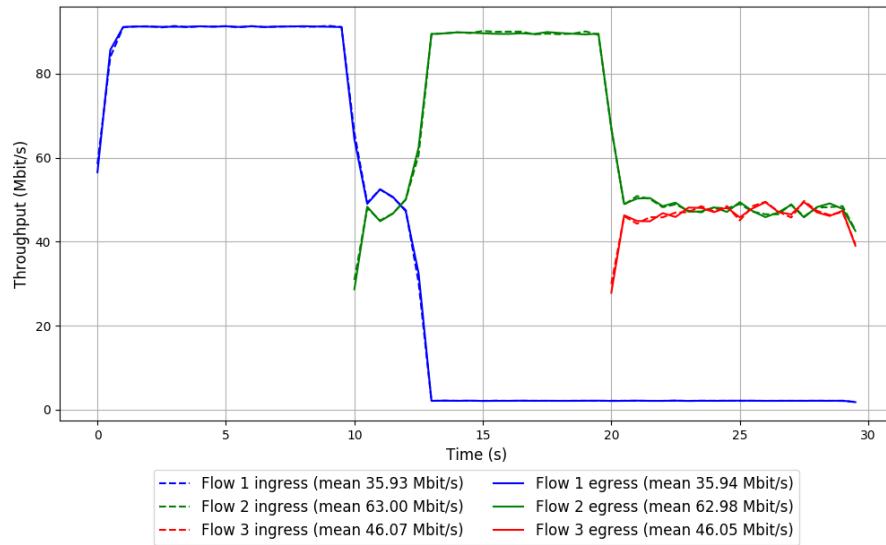


```
Run 1: Statistics of FillP

Start at: 2018-04-24 17:06:32
End at: 2018-04-24 17:07:02
Local clock offset: -3.81 ms
Remote clock offset: -6.68 ms

# Below is generated by plot.py at 2018-04-24 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 21.556 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 19.415 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 21.553 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 46.05 Mbit/s
95th percentile per-packet one-way delay: 22.269 ms
Loss rate: 0.24%
```

Run 1: Report of FillP — Data Link

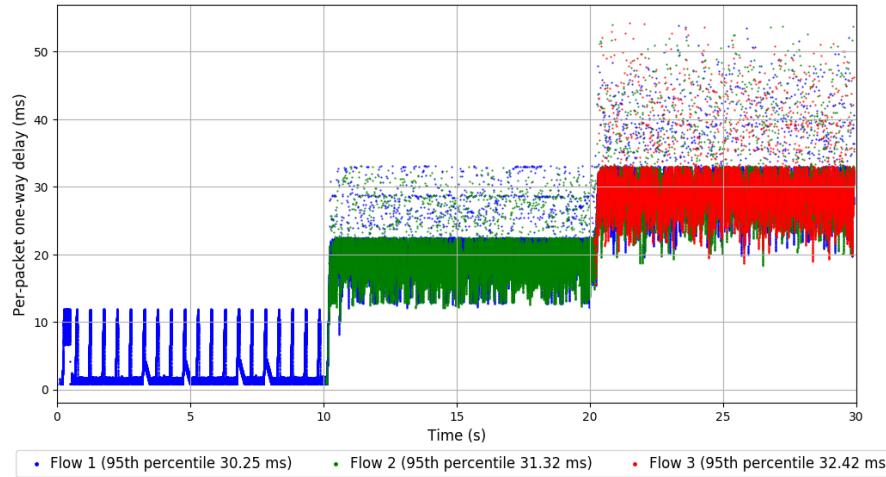
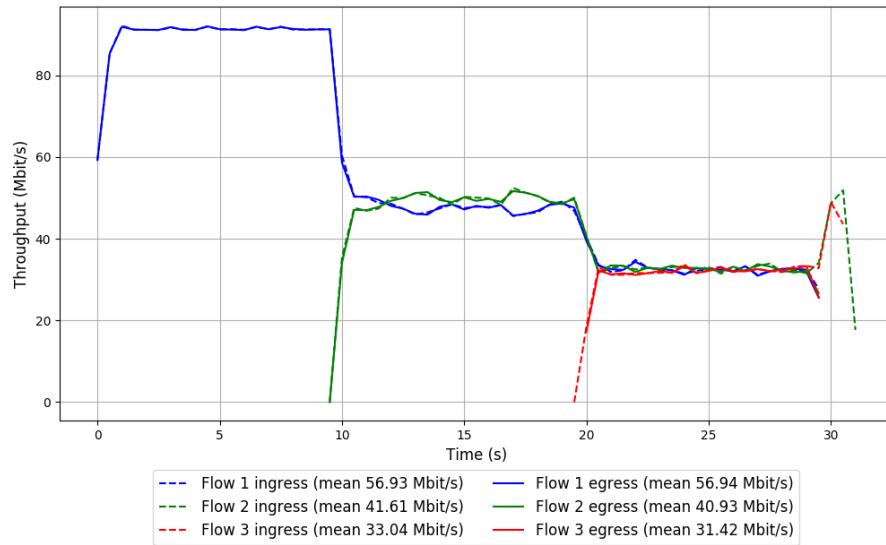


Run 2: Statistics of FillP

```
Start at: 2018-04-24 17:25:41
End at: 2018-04-24 17:26:11
Local clock offset: 0.449 ms
Remote clock offset: -6.854 ms

# Below is generated by plot.py at 2018-04-24 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 31.207 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 30.246 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 31.323 ms
Loss rate: 7.24%
-- Flow 3:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 32.420 ms
Loss rate: 14.08%
```

Run 2: Report of FillP — Data Link

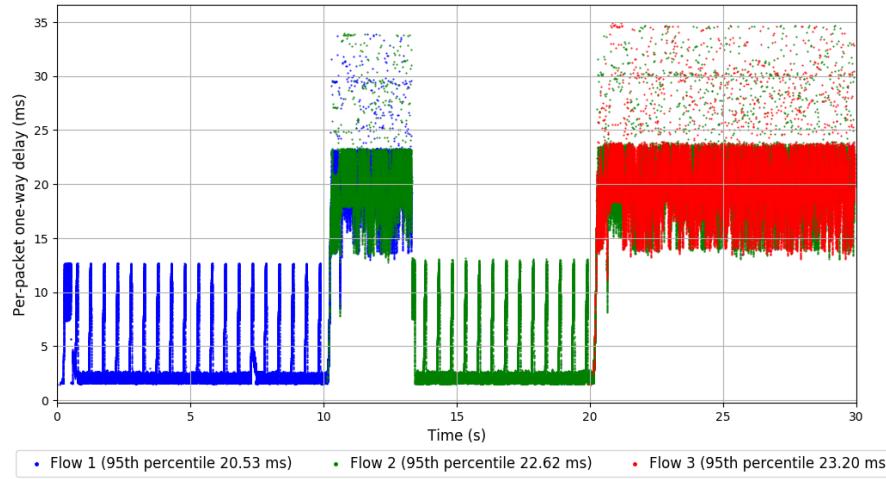
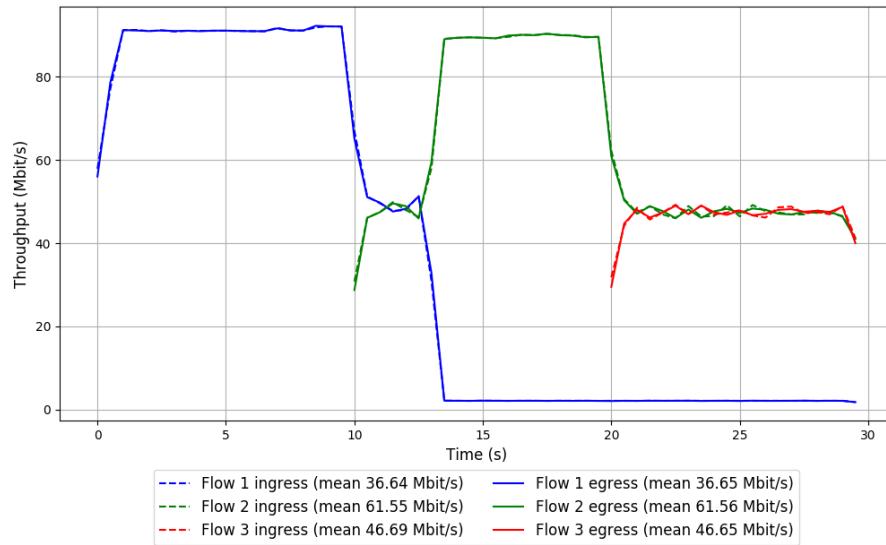


Run 3: Statistics of FillP

```
Start at: 2018-04-24 17:44:50
End at: 2018-04-24 17:45:20
Local clock offset: 2.859 ms
Remote clock offset: -5.904 ms

# Below is generated by plot.py at 2018-04-24 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 22.486 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 20.527 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 61.56 Mbit/s
95th percentile per-packet one-way delay: 22.625 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 23.195 ms
Loss rate: 0.28%
```

Run 3: Report of FillP — Data Link

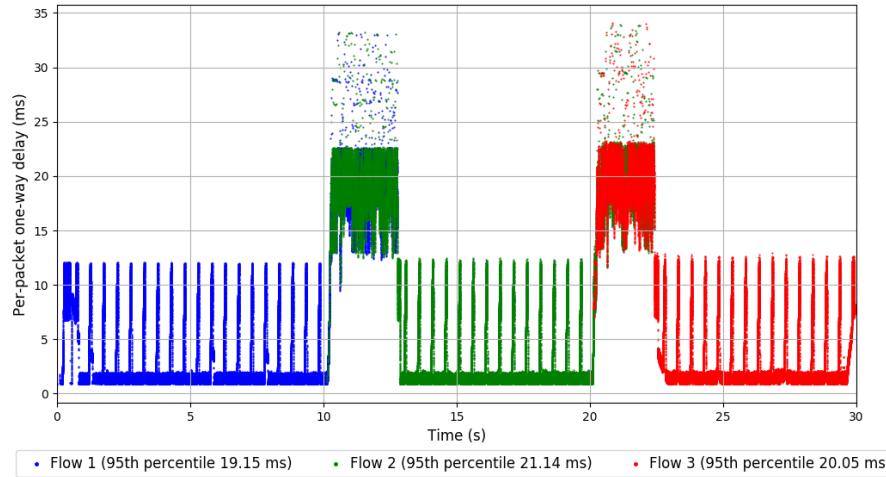
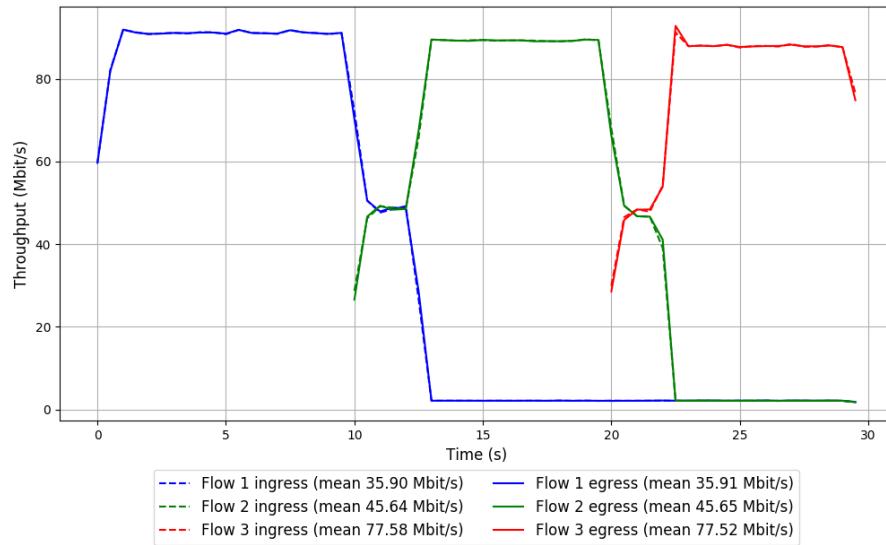


Run 4: Statistics of FillP

```
Start at: 2018-04-24 18:03:57
End at: 2018-04-24 18:04:27
Local clock offset: 3.48 ms
Remote clock offset: -5.71 ms

# Below is generated by plot.py at 2018-04-24 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 20.332 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 19.153 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.65 Mbit/s
95th percentile per-packet one-way delay: 21.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.52 Mbit/s
95th percentile per-packet one-way delay: 20.052 ms
Loss rate: 0.13%
```

Run 4: Report of FillP — Data Link

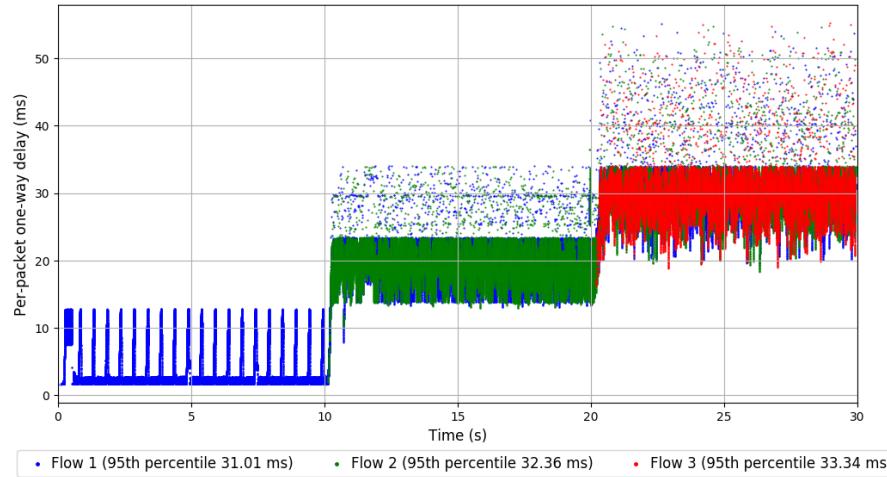
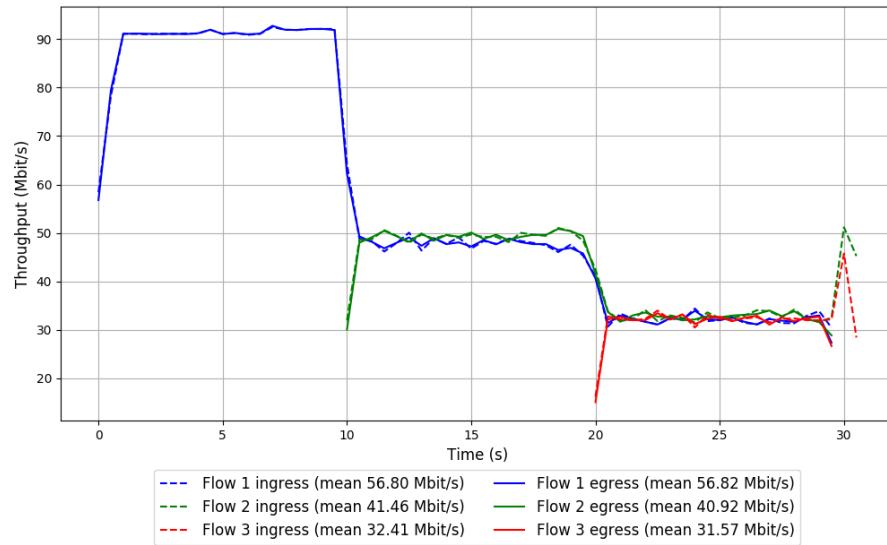


Run 5: Statistics of FillP

```
Start at: 2018-04-24 18:23:05
End at: 2018-04-24 18:23:36
Local clock offset: 1.615 ms
Remote clock offset: -5.352 ms

# Below is generated by plot.py at 2018-04-24 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 32.116 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 31.011 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 32.360 ms
Loss rate: 5.90%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 33.341 ms
Loss rate: 11.49%
```

Run 5: Report of FillP — Data Link

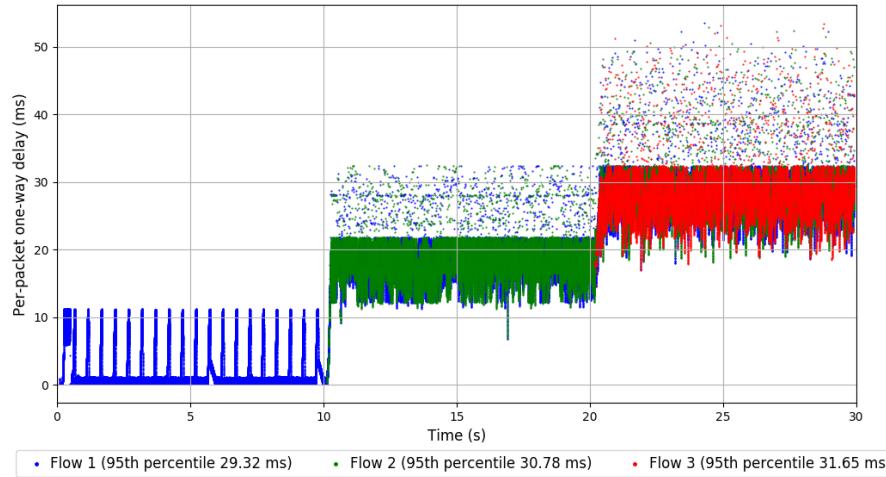
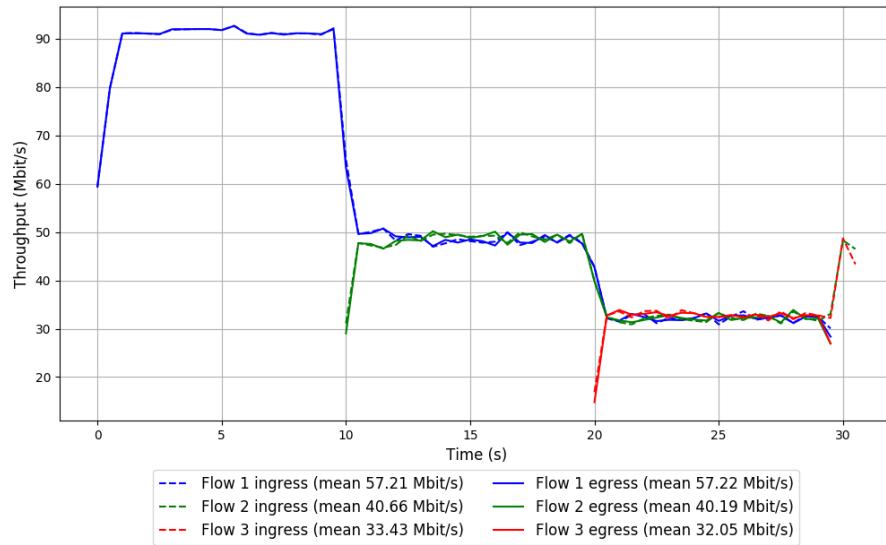


Run 6: Statistics of FillP

```
Start at: 2018-04-24 18:42:15
End at: 2018-04-24 18:42:45
Local clock offset: -1.387 ms
Remote clock offset: -5.326 ms

# Below is generated by plot.py at 2018-04-24 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 30.467 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 57.22 Mbit/s
95th percentile per-packet one-way delay: 29.325 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 30.781 ms
Loss rate: 6.00%
-- Flow 3:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 31.653 ms
Loss rate: 13.55%
```

Run 6: Report of FillP — Data Link

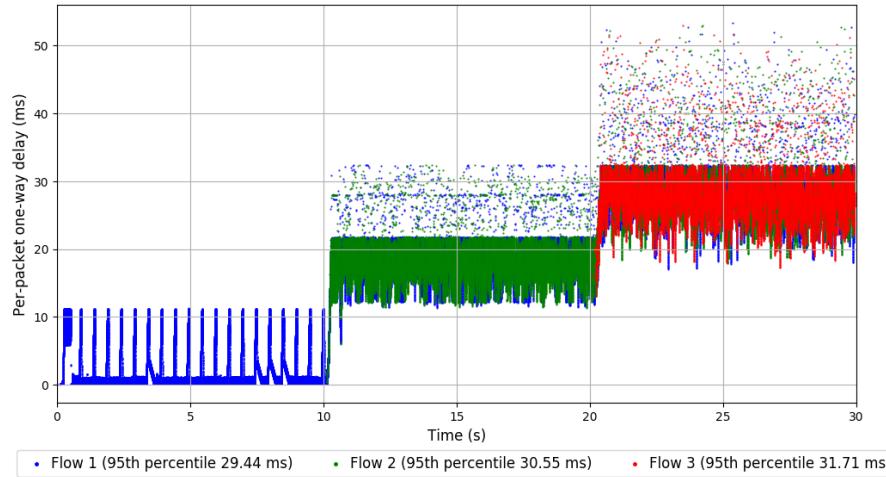
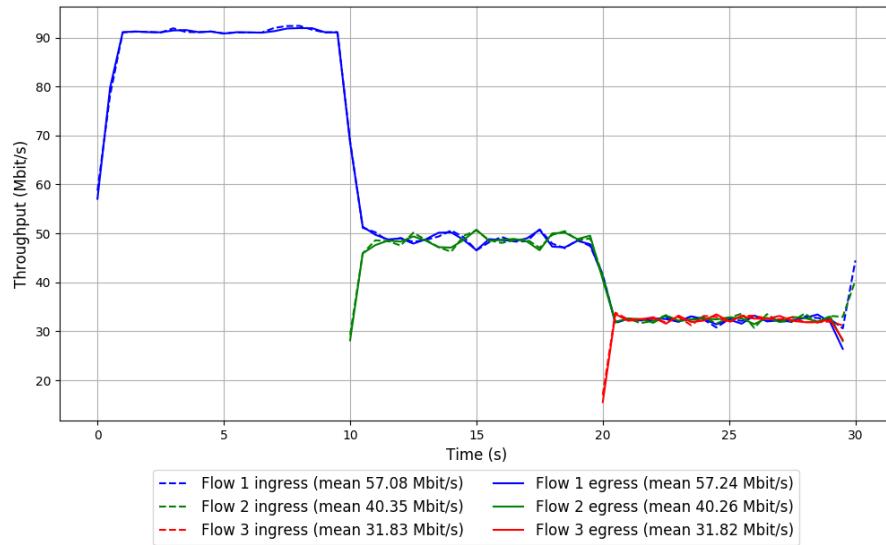


Run 7: Statistics of FillP

```
Start at: 2018-04-24 19:01:25
End at: 2018-04-24 19:01:55
Local clock offset: -5.877 ms
Remote clock offset: -5.301 ms

# Below is generated by plot.py at 2018-04-24 23:43:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 30.408 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 29.443 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 30.549 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 31.715 ms
Loss rate: 0.72%
```

Run 7: Report of FillP — Data Link

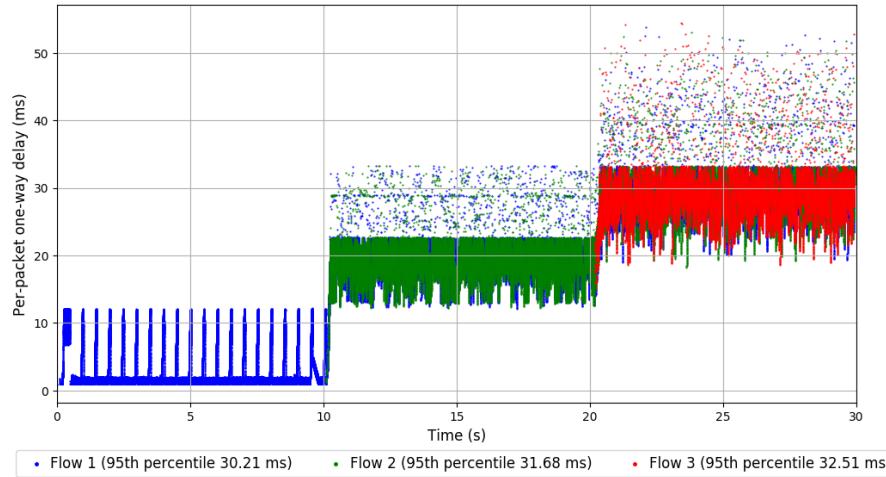
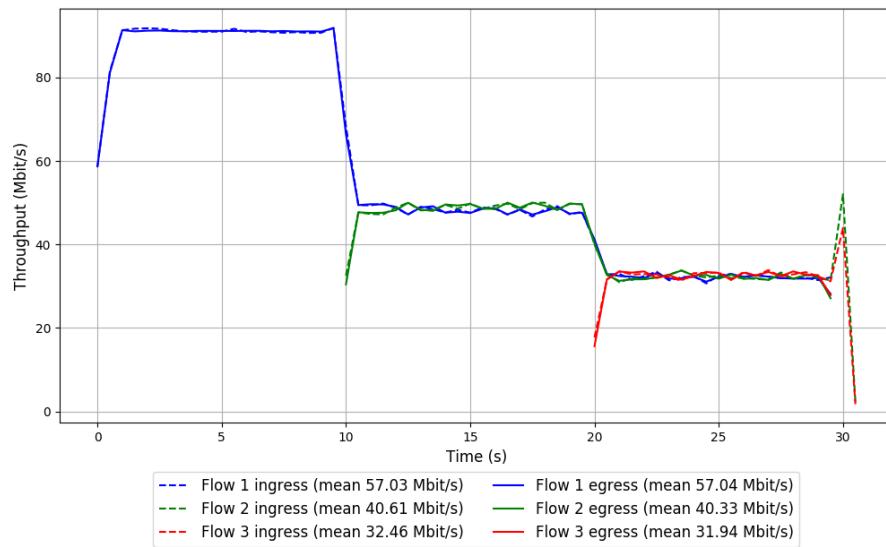


Run 8: Statistics of FillP

```
Start at: 2018-04-24 19:20:35
End at: 2018-04-24 19:21:05
Local clock offset: -7.091 ms
Remote clock offset: -5.493 ms

# Below is generated by plot.py at 2018-04-24 23:43:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 31.318 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 57.04 Mbit/s
95th percentile per-packet one-way delay: 30.210 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 31.677 ms
Loss rate: 3.60%
-- Flow 3:
Average throughput: 31.94 Mbit/s
95th percentile per-packet one-way delay: 32.508 ms
Loss rate: 7.43%
```

Run 8: Report of FillP — Data Link

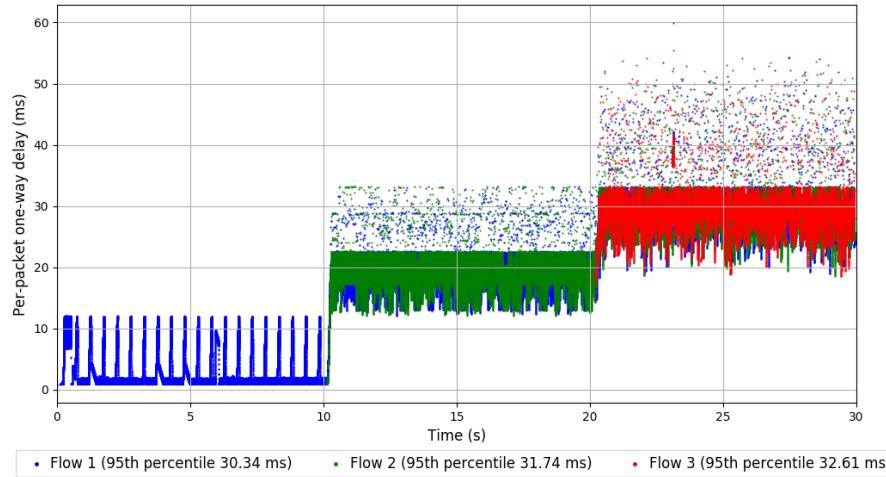
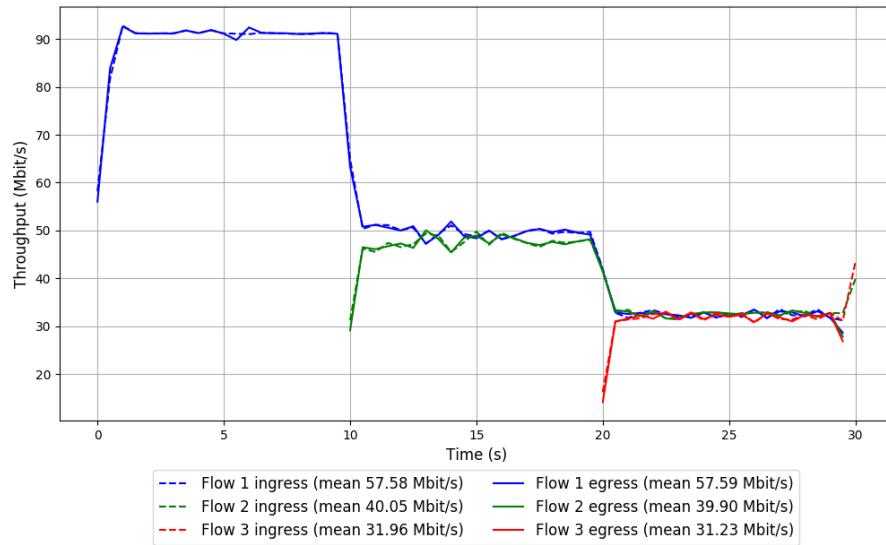


Run 9: Statistics of FillP

```
Start at: 2018-04-24 19:39:46
End at: 2018-04-24 19:40:16
Local clock offset: -5.26 ms
Remote clock offset: -5.493 ms

# Below is generated by plot.py at 2018-04-24 23:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 31.448 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 57.59 Mbit/s
95th percentile per-packet one-way delay: 30.343 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 31.743 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 32.609 ms
Loss rate: 7.38%
```

Run 9: Report of FillP — Data Link

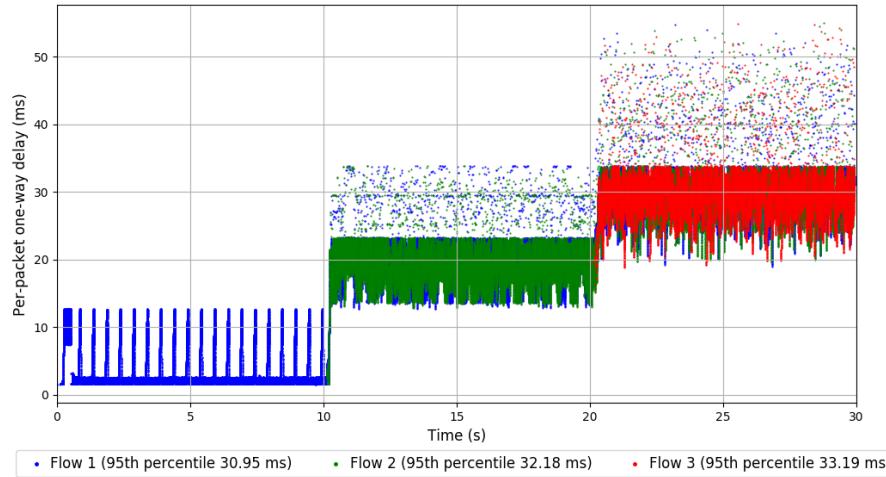
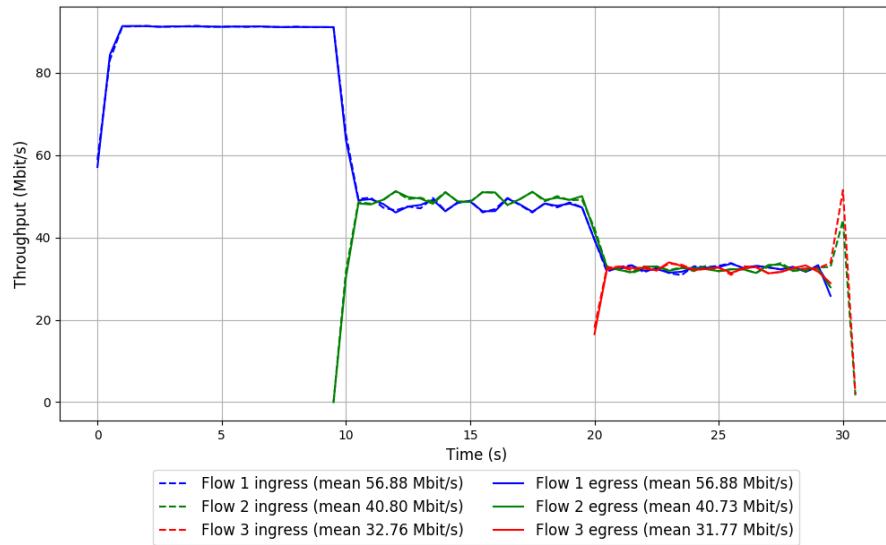


Run 10: Statistics of FillP

```
Start at: 2018-04-24 19:58:56
End at: 2018-04-24 19:59:26
Local clock offset: -4.496 ms
Remote clock offset: -6.916 ms

# Below is generated by plot.py at 2018-04-24 23:43:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 31.987 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 30.951 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 32.180 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 33.190 ms
Loss rate: 8.77%
```

Run 10: Report of FillP — Data Link

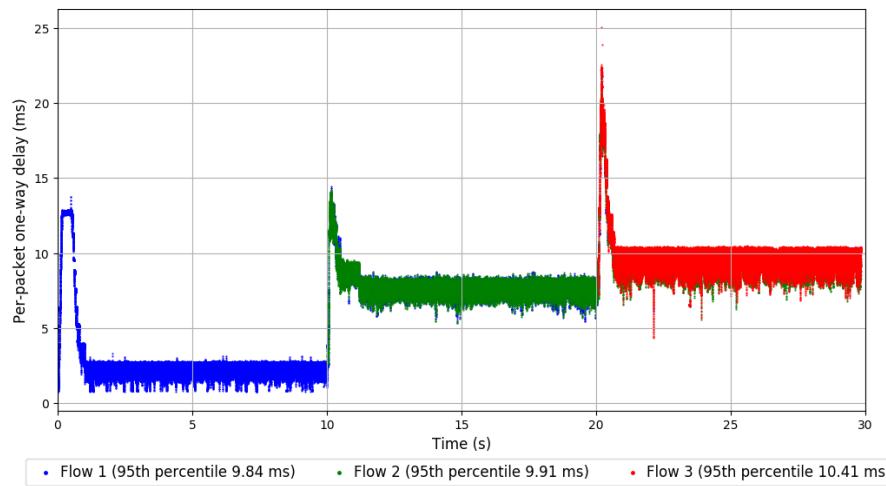
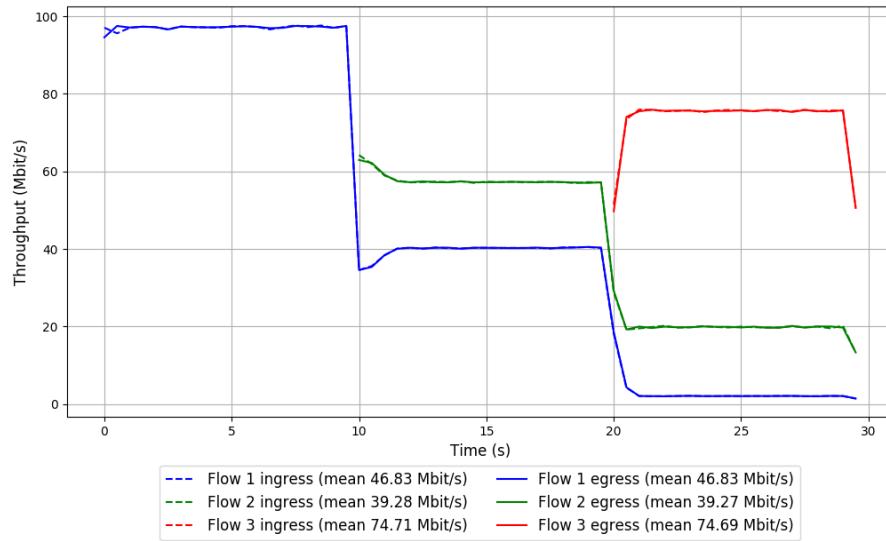


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-24 17:00:50
End at: 2018-04-24 17:01:20
Local clock offset: -4.888 ms
Remote clock offset: -6.427 ms

# Below is generated by plot.py at 2018-04-24 23:43:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 10.341 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 9.842 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 9.914 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 74.69 Mbit/s
95th percentile per-packet one-way delay: 10.414 ms
Loss rate: 0.11%
```

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

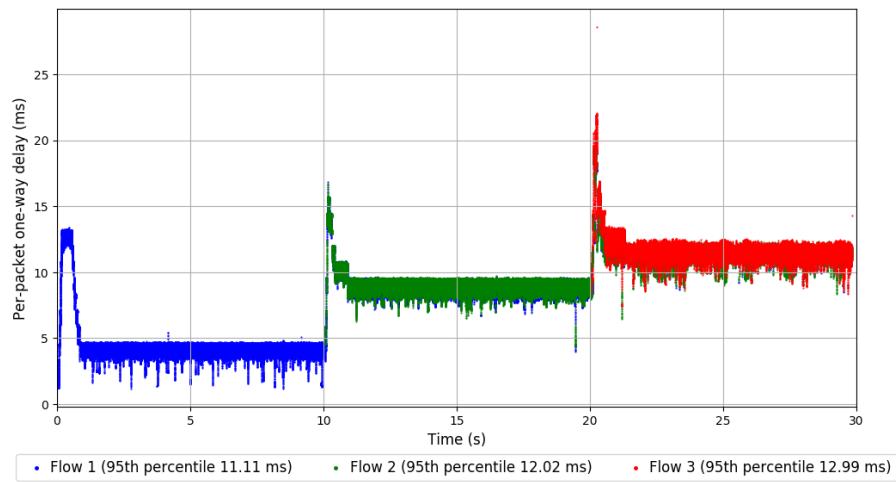
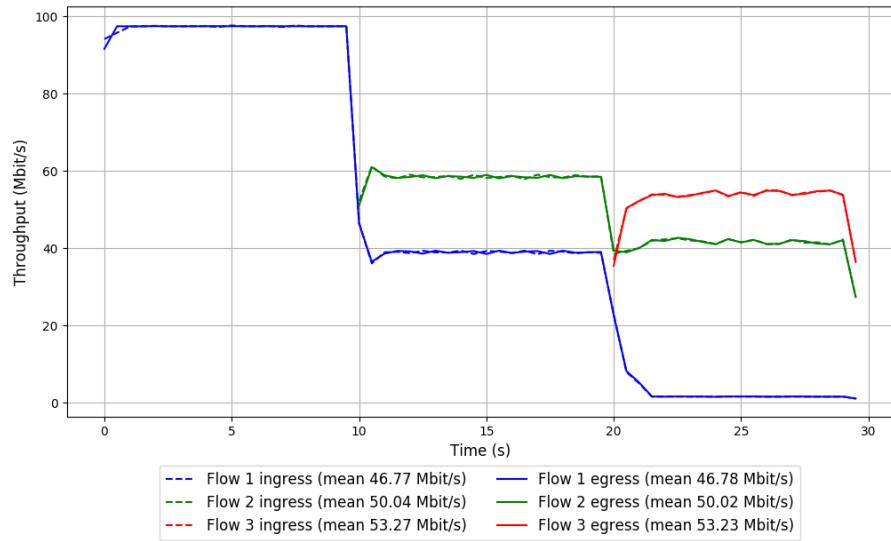


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-24 17:19:59
End at: 2018-04-24 17:20:29
Local clock offset: -0.591 ms
Remote clock offset: -6.821 ms

# Below is generated by plot.py at 2018-04-24 23:44:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 12.277 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 46.78 Mbit/s
95th percentile per-packet one-way delay: 11.111 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 12.021 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 12.988 ms
Loss rate: 0.14%
```

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

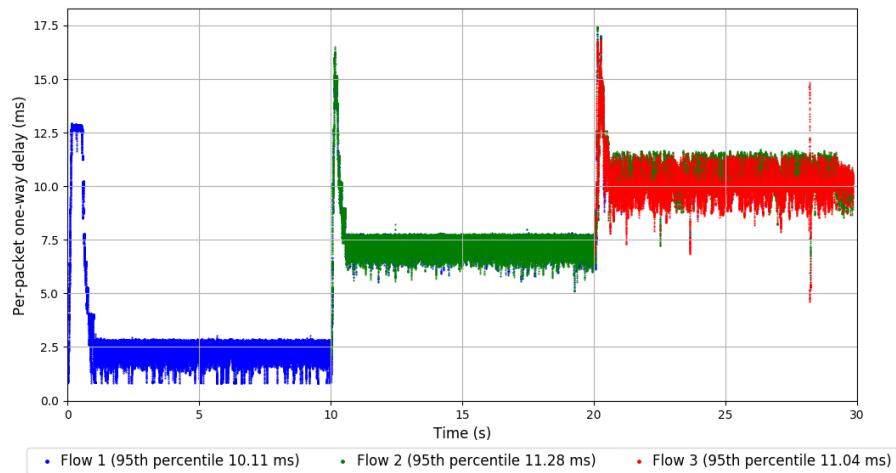
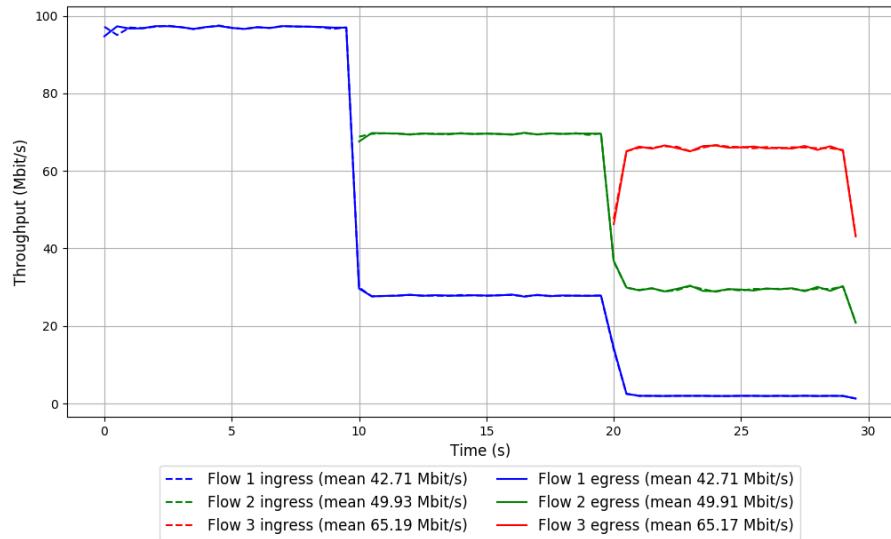


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-24 17:39:08
End at: 2018-04-24 17:39:38
Local clock offset: 1.611 ms
Remote clock offset: -6.139 ms

# Below is generated by plot.py at 2018-04-24 23:44:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 11.168 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 42.71 Mbit/s
95th percentile per-packet one-way delay: 10.114 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.91 Mbit/s
95th percentile per-packet one-way delay: 11.281 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 11.039 ms
Loss rate: 0.12%
```

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

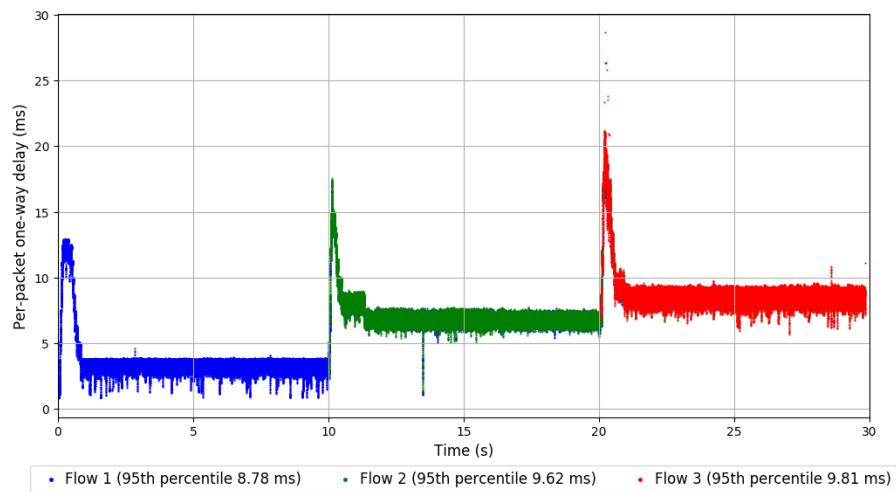
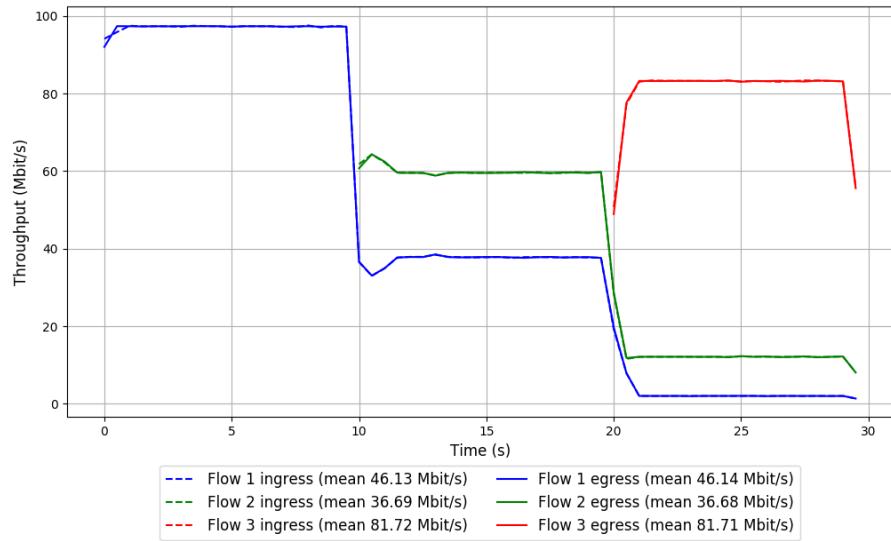


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-24 17:58:15
End at: 2018-04-24 17:58:45
Local clock offset: 3.118 ms
Remote clock offset: -5.692 ms

# Below is generated by plot.py at 2018-04-24 23:44:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 9.504 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 8.781 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 9.623 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 81.71 Mbit/s
95th percentile per-packet one-way delay: 9.812 ms
Loss rate: 0.12%
```

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

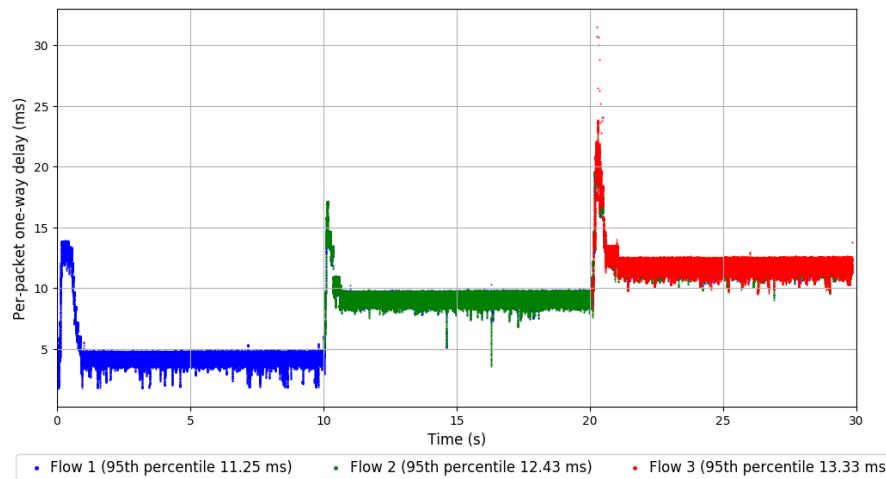
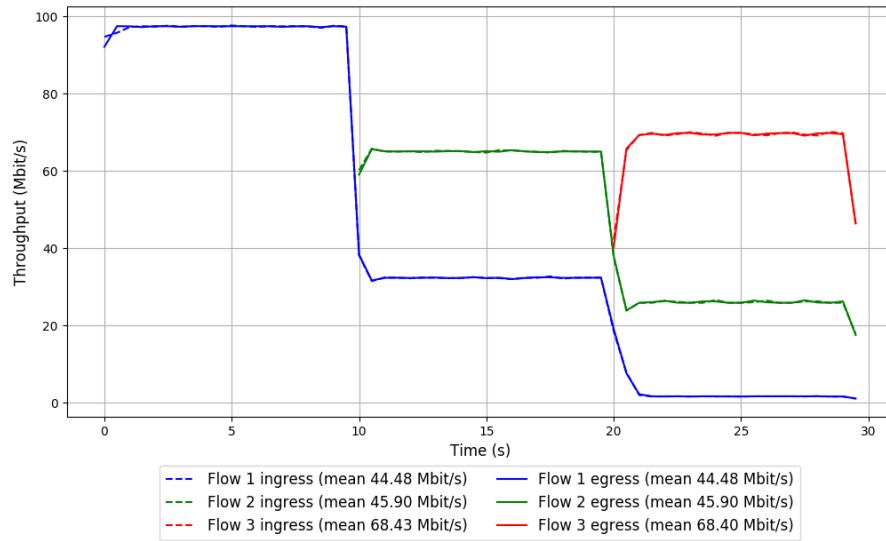


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-24 18:17:23
End at: 2018-04-24 18:17:53
Local clock offset: 3.037 ms
Remote clock offset: -5.461 ms

# Below is generated by plot.py at 2018-04-24 23:45:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 12.515 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.48 Mbit/s
95th percentile per-packet one-way delay: 11.246 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 12.433 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 68.40 Mbit/s
95th percentile per-packet one-way delay: 13.326 ms
Loss rate: 0.13%
```

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

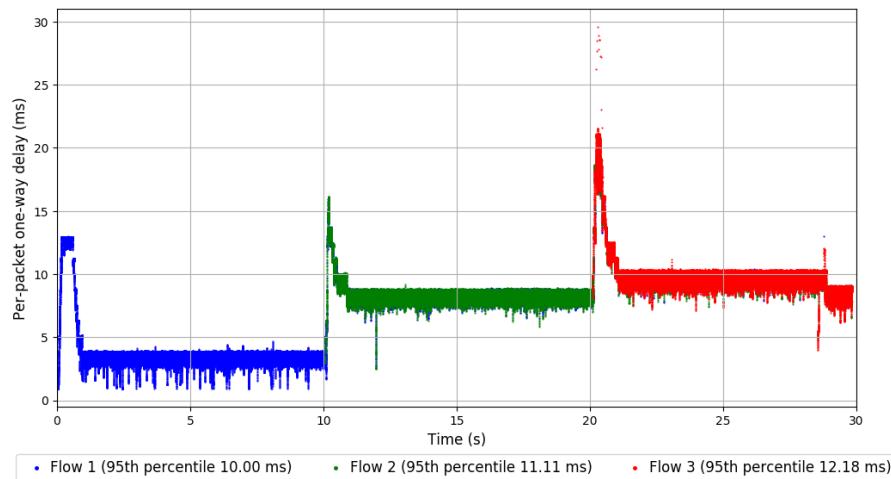
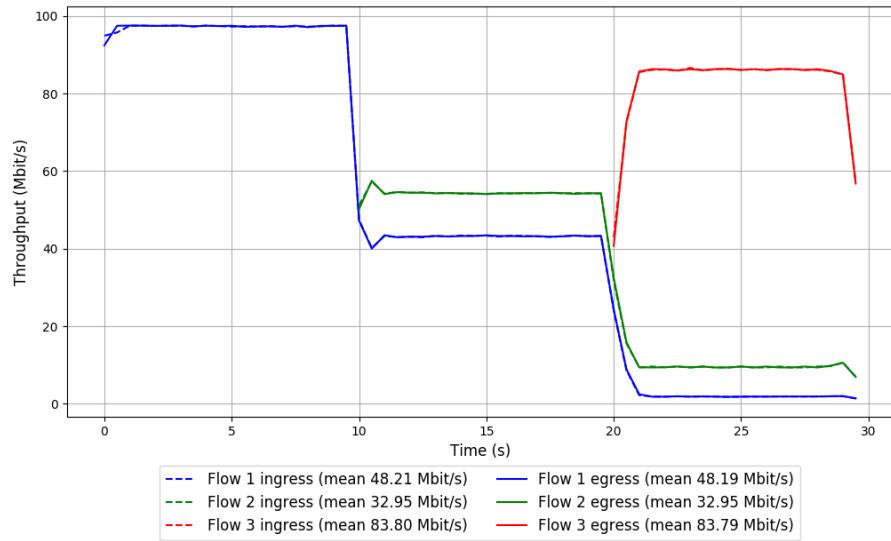


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-24 18:36:33
End at: 2018-04-24 18:37:03
Local clock offset: -0.419 ms
Remote clock offset: -5.267 ms

# Below is generated by plot.py at 2018-04-24 23:45:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 11.147 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 48.19 Mbit/s
95th percentile per-packet one-way delay: 10.004 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 11.107 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 12.176 ms
Loss rate: 0.11%
```

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

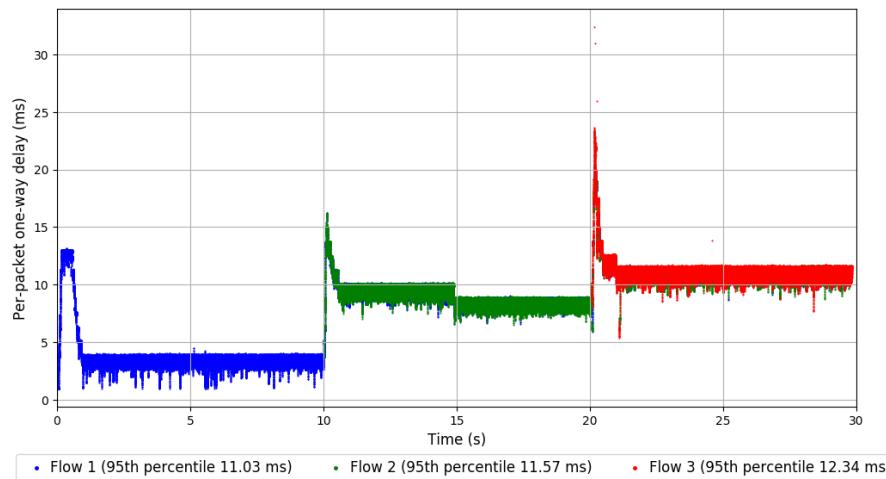
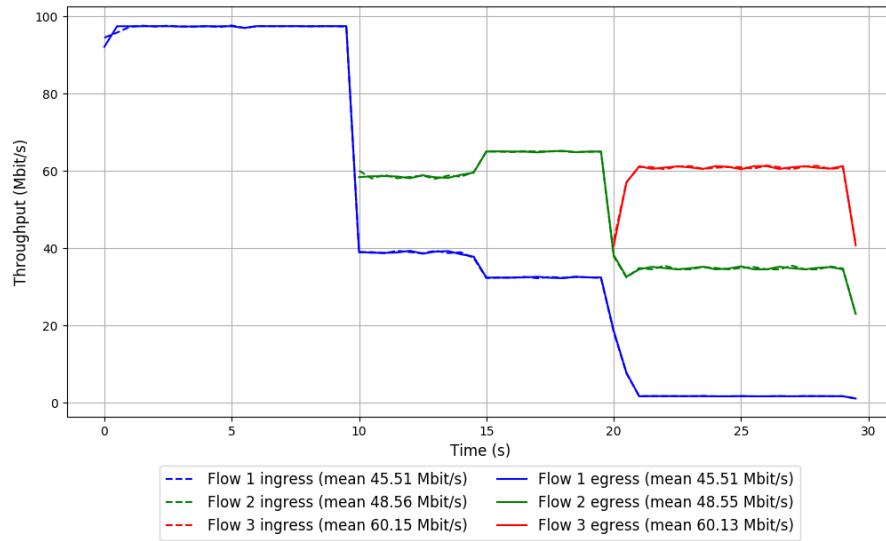


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-24 18:55:43
End at: 2018-04-24 18:56:13
Local clock offset: -3.898 ms
Remote clock offset: -5.316 ms

# Below is generated by plot.py at 2018-04-24 23:45:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 11.609 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 45.51 Mbit/s
95th percentile per-packet one-way delay: 11.027 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 11.572 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 60.13 Mbit/s
95th percentile per-packet one-way delay: 12.337 ms
Loss rate: 0.14%
```

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

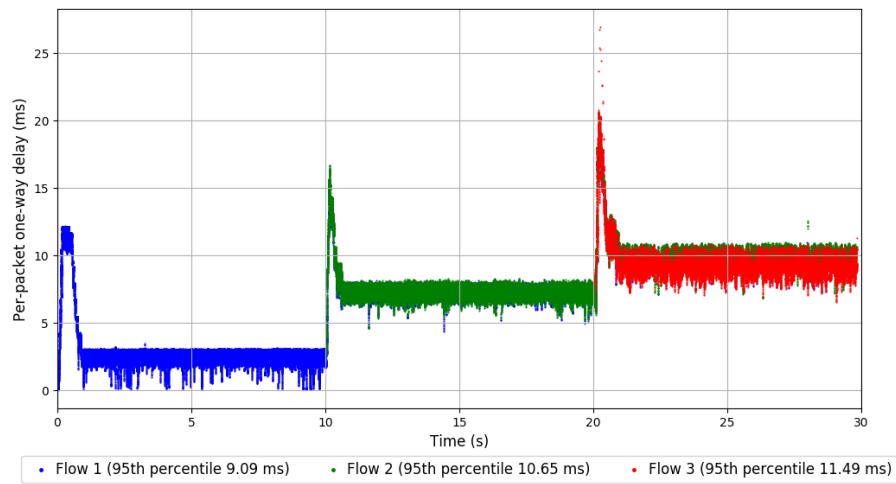
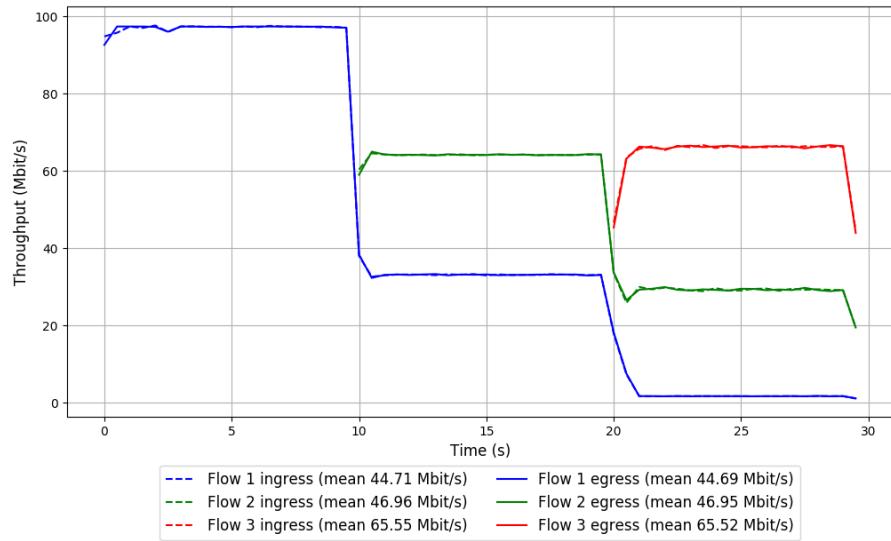


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-24 19:14:53
End at: 2018-04-24 19:15:23
Local clock offset: -7.421 ms
Remote clock offset: -5.363 ms

# Below is generated by plot.py at 2018-04-24 23:45:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 10.567 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 9.086 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.95 Mbit/s
95th percentile per-packet one-way delay: 10.647 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 65.52 Mbit/s
95th percentile per-packet one-way delay: 11.487 ms
Loss rate: 0.13%
```

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

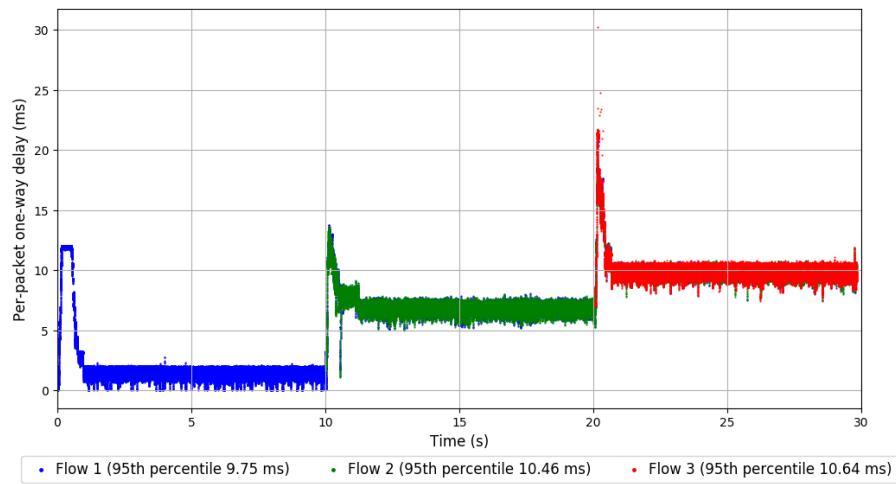
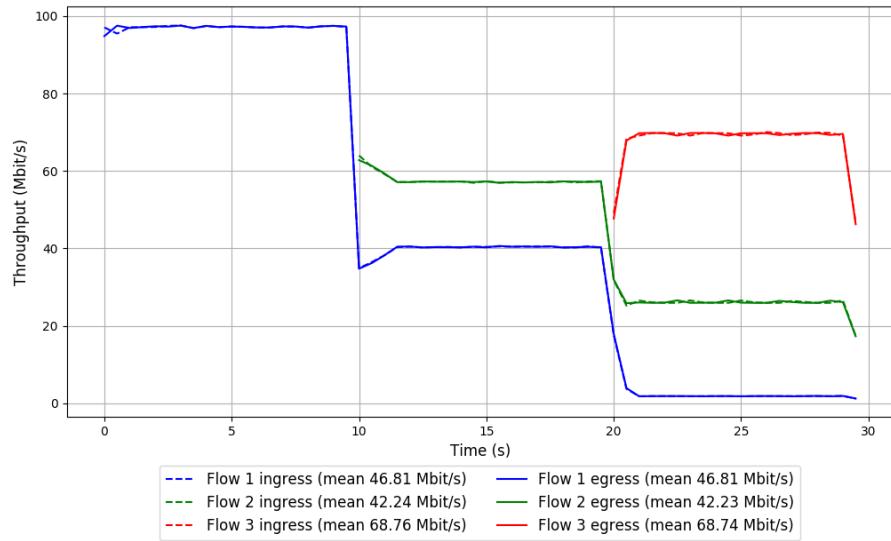


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-24 19:34:04
End at: 2018-04-24 19:34:34
Local clock offset: -6.218 ms
Remote clock offset: -5.487 ms

# Below is generated by plot.py at 2018-04-24 23:45:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 10.528 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 46.81 Mbit/s
95th percentile per-packet one-way delay: 9.749 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.23 Mbit/s
95th percentile per-packet one-way delay: 10.459 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 68.74 Mbit/s
95th percentile per-packet one-way delay: 10.637 ms
Loss rate: 0.14%
```

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

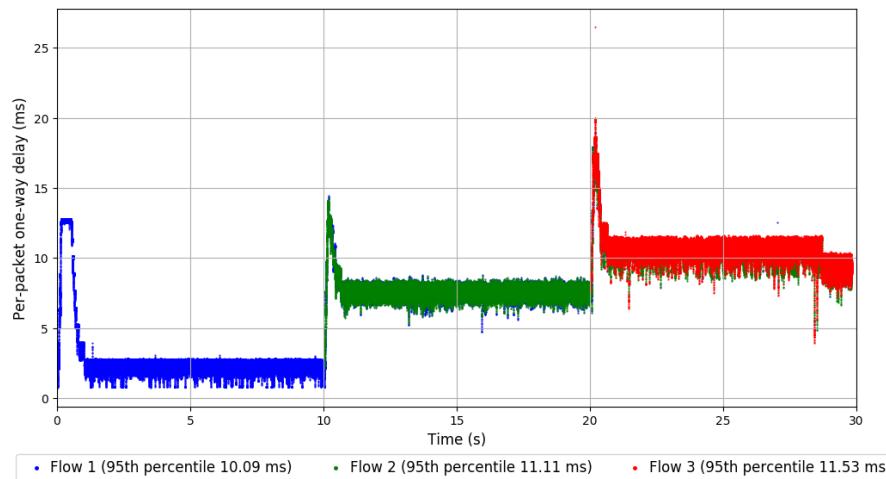
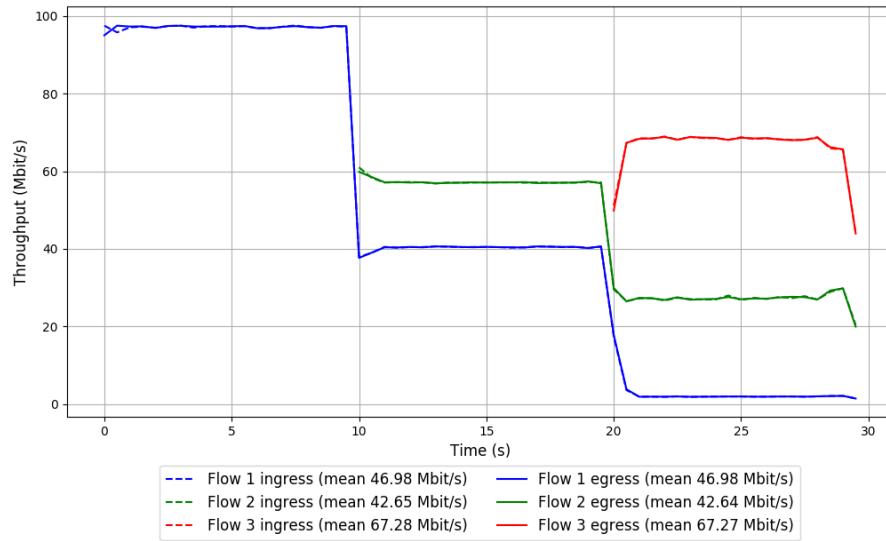


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-24 19:53:14
End at: 2018-04-24 19:53:44
Local clock offset: -5.528 ms
Remote clock offset: -6.557 ms

# Below is generated by plot.py at 2018-04-24 23:45:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 11.408 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: 10.094 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 11.106 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 67.27 Mbit/s
95th percentile per-packet one-way delay: 11.526 ms
Loss rate: 0.11%
```

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

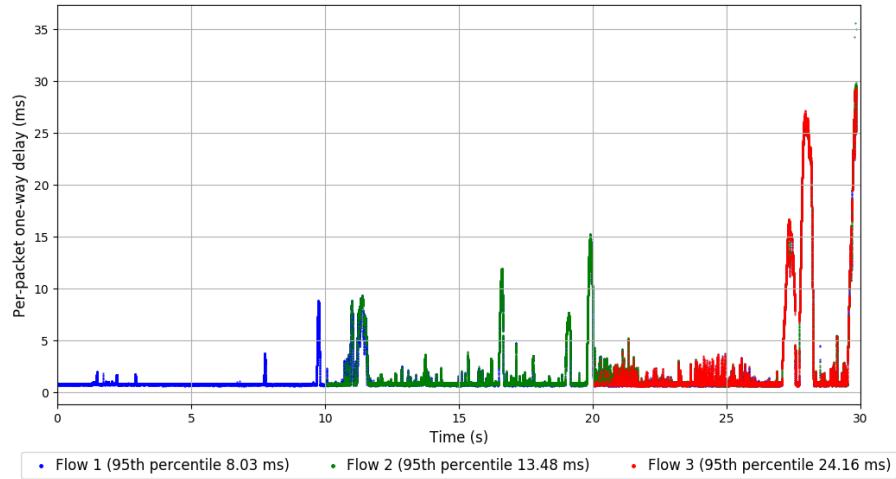
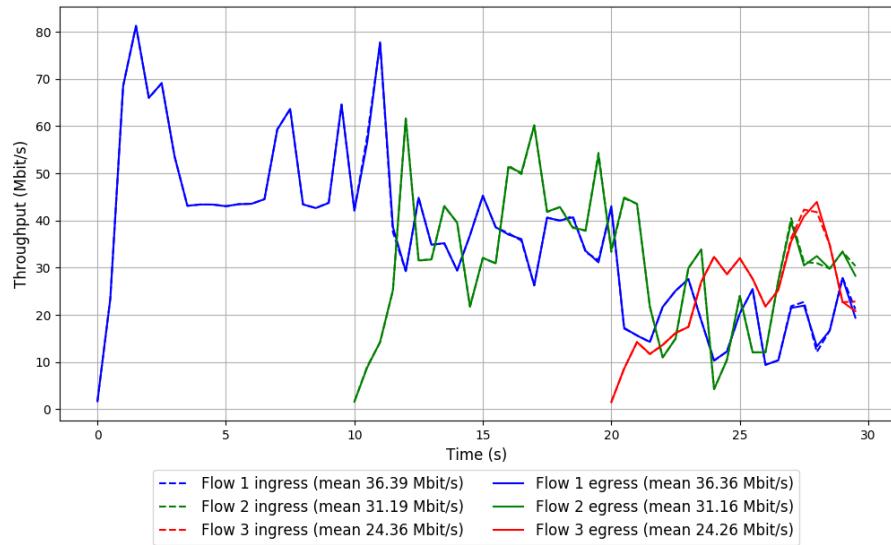


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-04-24 16:58:34
End at: 2018-04-24 16:59:04
Local clock offset: -4.836 ms
Remote clock offset: -6.224 ms

# Below is generated by plot.py at 2018-04-24 23:45:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 12.524 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 8.030 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 31.16 Mbit/s
95th percentile per-packet one-way delay: 13.481 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 24.156 ms
Loss rate: 0.43%
```

Run 1: Report of PCC-Vivace — Data Link

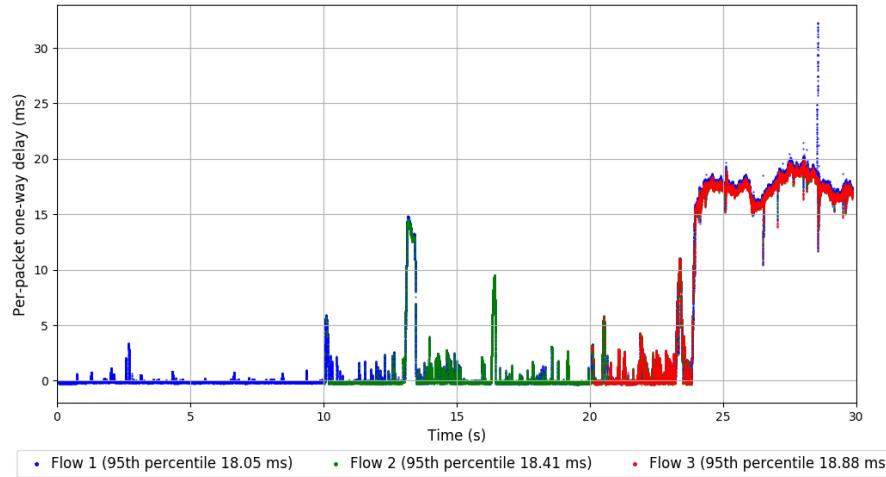
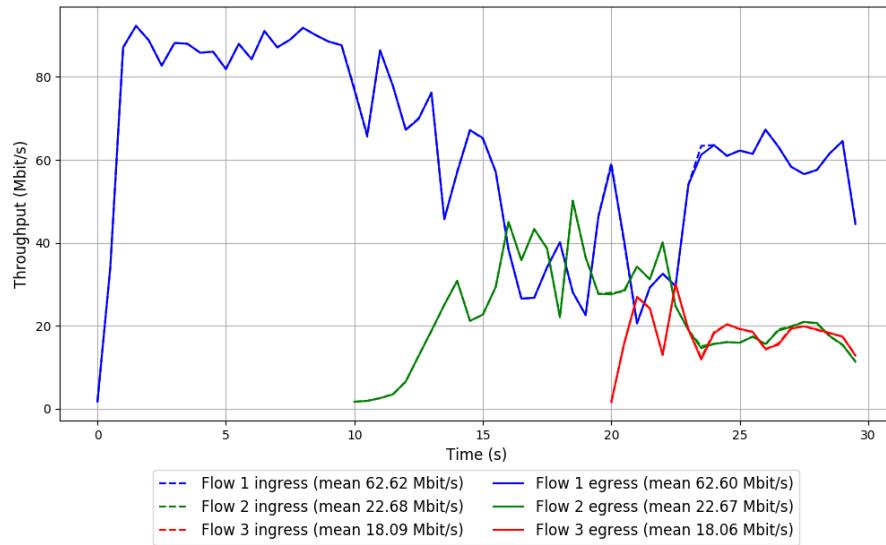


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-24 17:17:42
End at: 2018-04-24 17:18:12
Local clock offset: -1.511 ms
Remote clock offset: -6.786 ms

# Below is generated by plot.py at 2018-04-24 23:45:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 18.326 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 62.60 Mbit/s
95th percentile per-packet one-way delay: 18.048 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 22.67 Mbit/s
95th percentile per-packet one-way delay: 18.409 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 18.877 ms
Loss rate: 0.21%
```

Run 2: Report of PCC-Vivace — Data Link

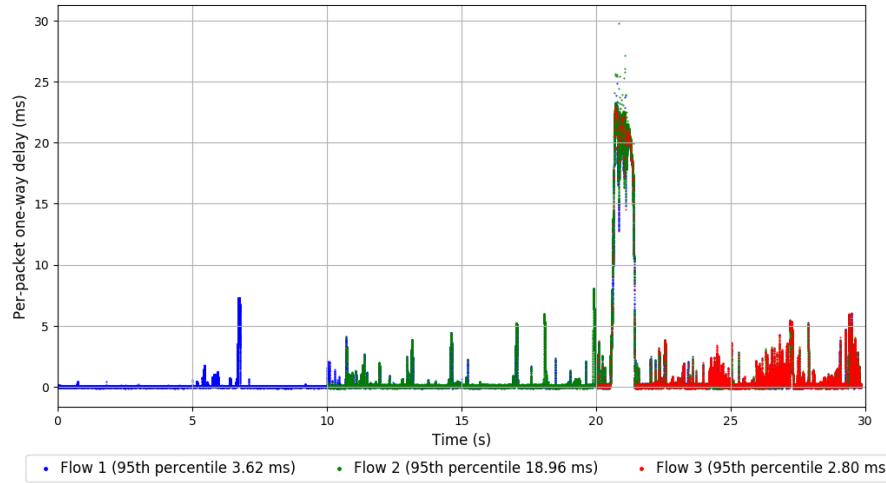
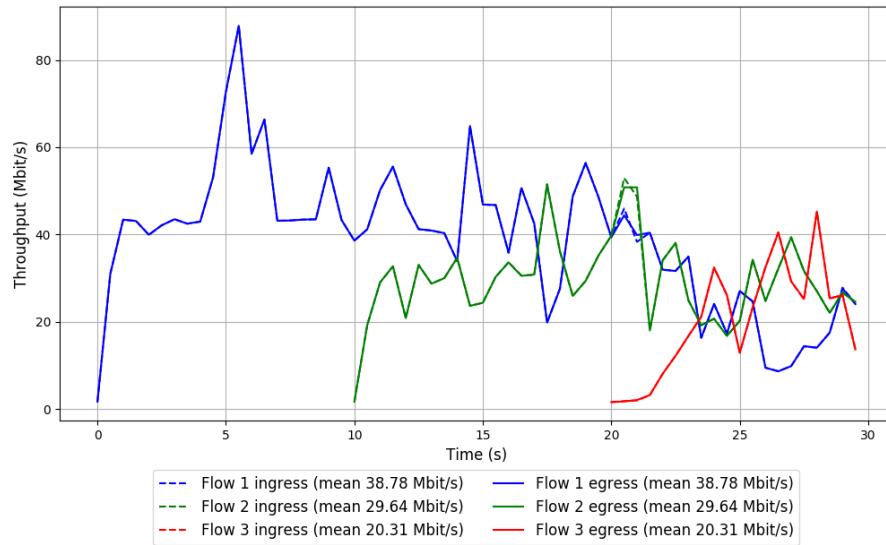


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-24 17:36:52
End at: 2018-04-24 17:37:22
Local clock offset: 0.652 ms
Remote clock offset: -6.25 ms

# Below is generated by plot.py at 2018-04-24 23:46:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 5.164 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 3.619 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 18.960 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 2.803 ms
Loss rate: 0.03%
```

Run 3: Report of PCC-Vivace — Data Link

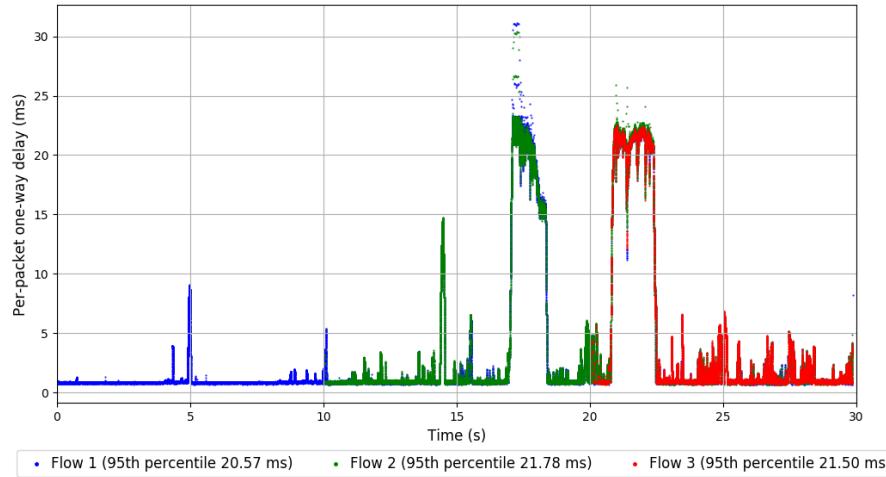
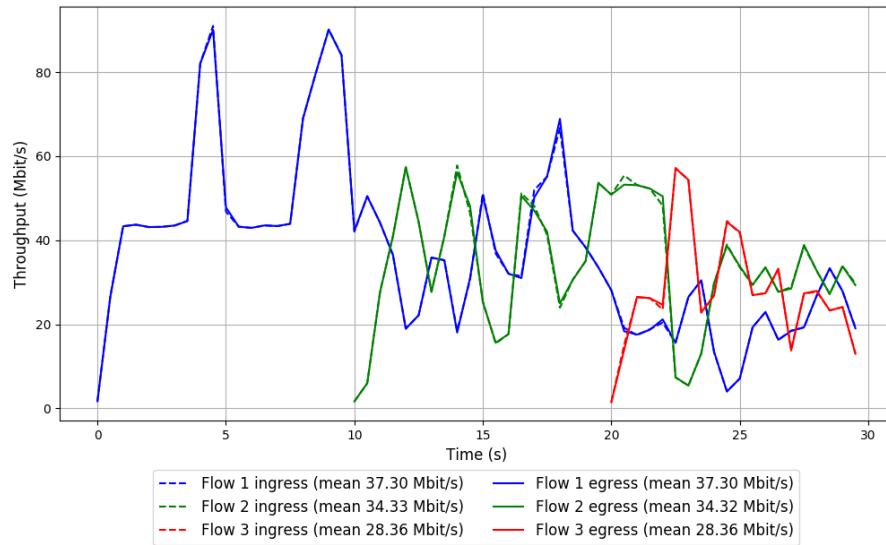


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-24 17:55:59
End at: 2018-04-24 17:56:29
Local clock offset: 2.91 ms
Remote clock offset: -5.8 ms

# Below is generated by plot.py at 2018-04-24 23:46:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.43 Mbit/s
95th percentile per-packet one-way delay: 21.418 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 20.573 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 21.782 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 28.36 Mbit/s
95th percentile per-packet one-way delay: 21.500 ms
Loss rate: 0.03%
```

Run 4: Report of PCC-Vivace — Data Link

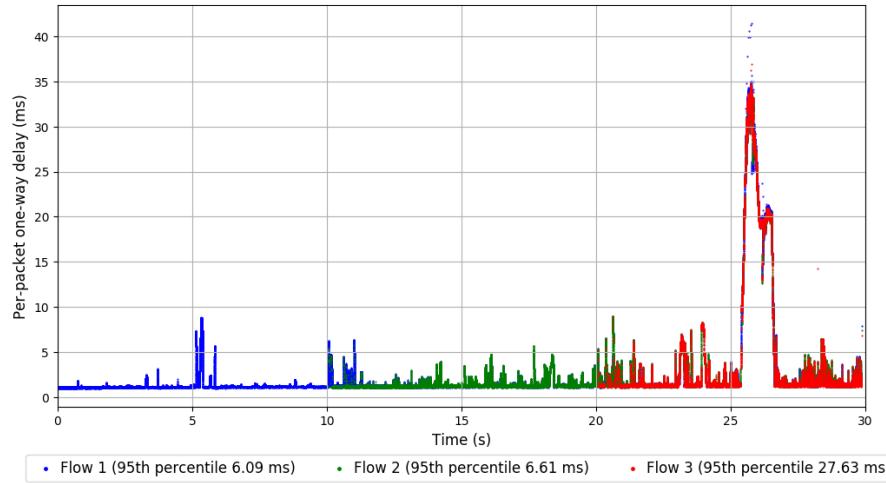
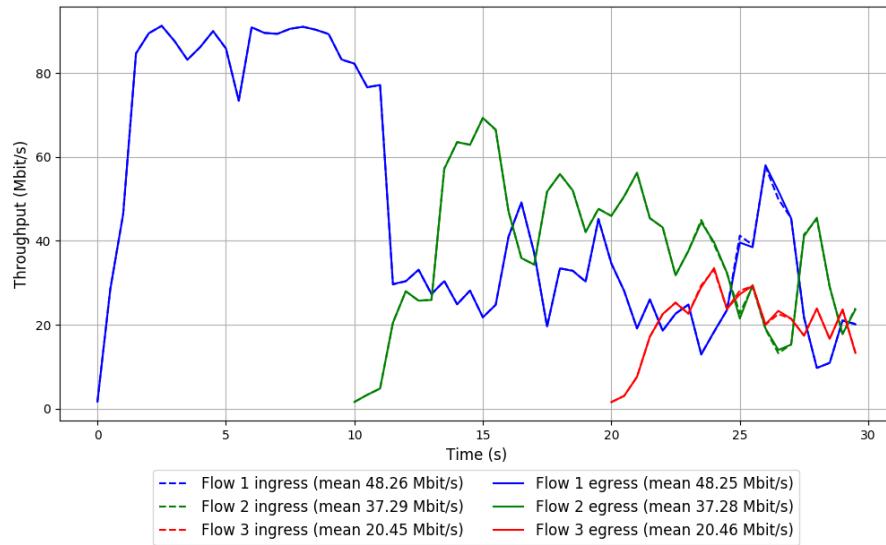


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-24 18:15:07
End at: 2018-04-24 18:15:37
Local clock offset: 3.188 ms
Remote clock offset: -5.481 ms

# Below is generated by plot.py at 2018-04-24 23:46:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.74 Mbit/s
95th percentile per-packet one-way delay: 8.476 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 48.25 Mbit/s
95th percentile per-packet one-way delay: 6.086 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 37.28 Mbit/s
95th percentile per-packet one-way delay: 6.612 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 20.46 Mbit/s
95th percentile per-packet one-way delay: 27.634 ms
Loss rate: 0.04%
```

Run 5: Report of PCC-Vivace — Data Link

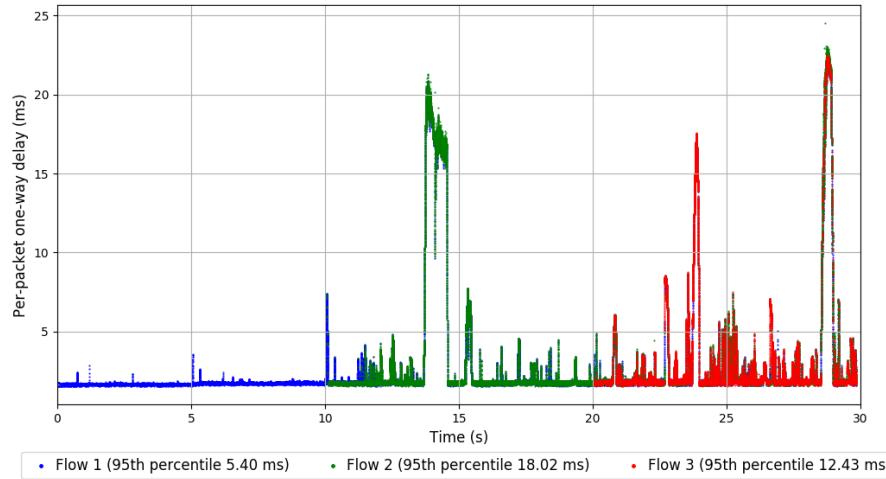
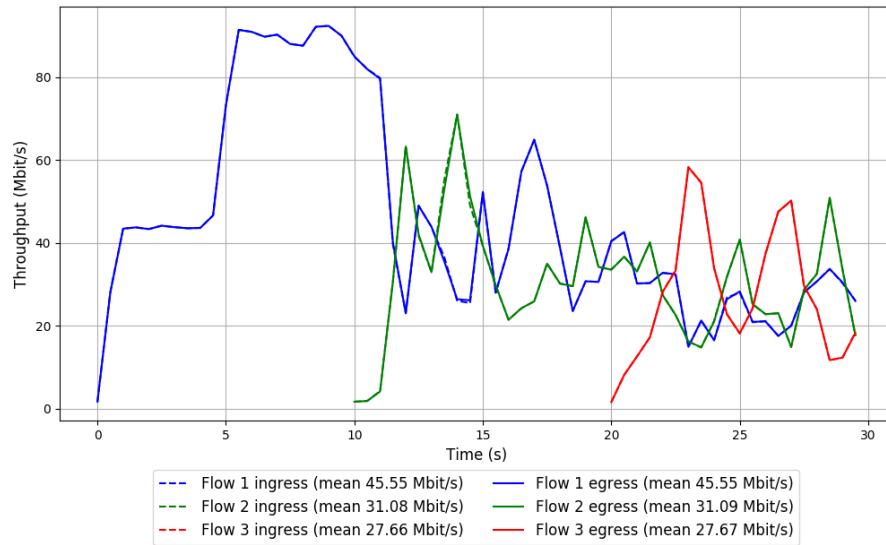


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-24 18:34:17
End at: 2018-04-24 18:34:47
Local clock offset: 0.455 ms
Remote clock offset: -5.299 ms

# Below is generated by plot.py at 2018-04-24 23:46:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.32 Mbit/s
95th percentile per-packet one-way delay: 15.382 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 45.55 Mbit/s
95th percentile per-packet one-way delay: 5.399 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 18.022 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 27.67 Mbit/s
95th percentile per-packet one-way delay: 12.428 ms
Loss rate: 0.03%
```

Run 6: Report of PCC-Vivace — Data Link

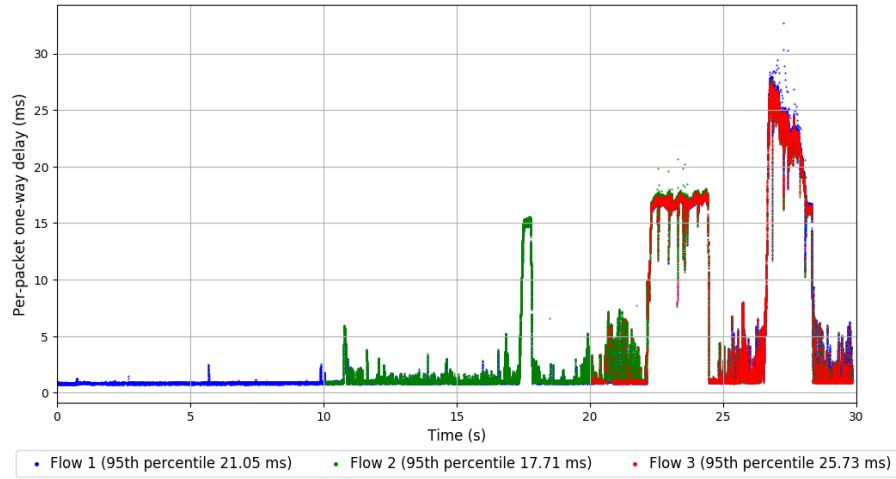
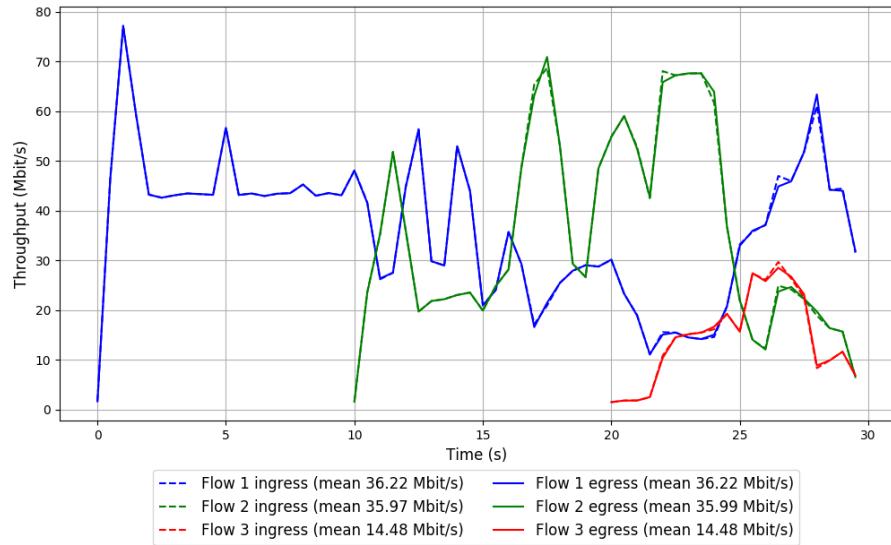


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-24 18:53:28
End at: 2018-04-24 18:53:58
Local clock offset: -3.41 ms
Remote clock offset: -5.352 ms

# Below is generated by plot.py at 2018-04-24 23:46:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.89 Mbit/s
95th percentile per-packet one-way delay: 22.258 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 21.054 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 17.712 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 25.733 ms
Loss rate: 0.01%
```

Run 7: Report of PCC-Vivace — Data Link

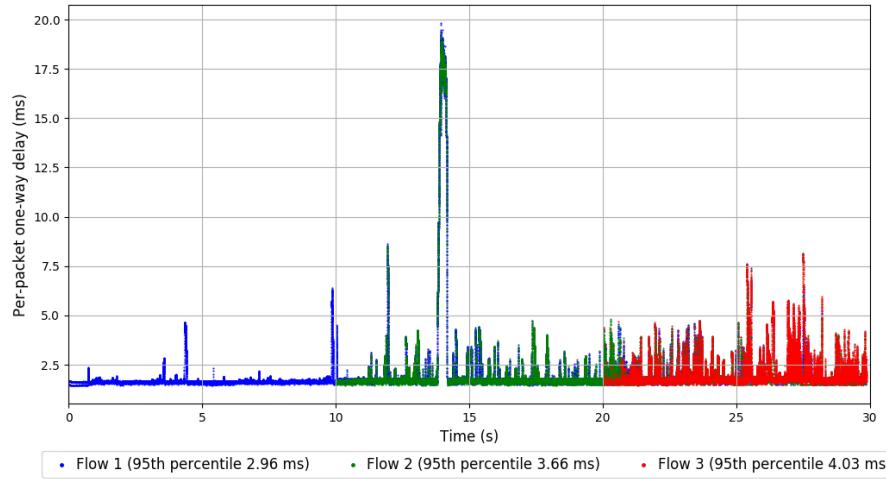
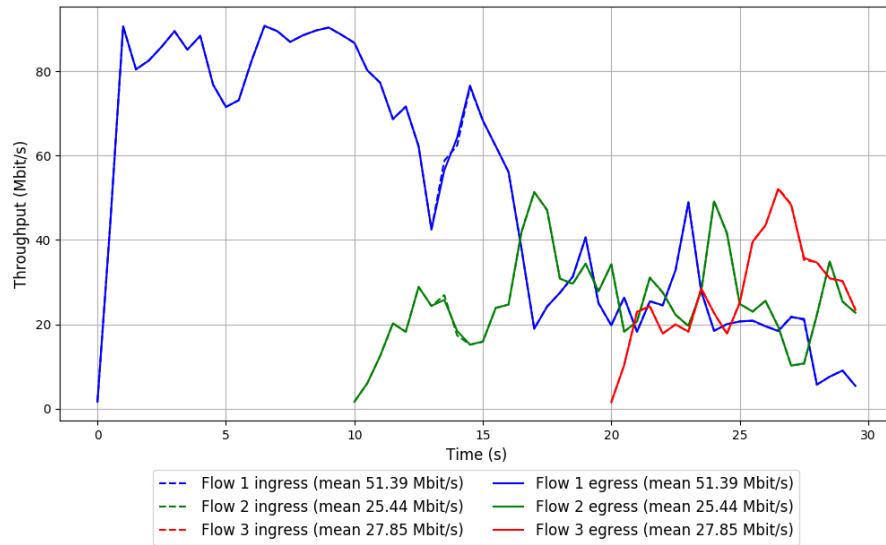


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-24 19:12:37
End at: 2018-04-24 19:13:07
Local clock offset: -5.653 ms
Remote clock offset: -5.285 ms

# Below is generated by plot.py at 2018-04-24 23:46:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.48 Mbit/s
95th percentile per-packet one-way delay: 3.374 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 51.39 Mbit/s
95th percentile per-packet one-way delay: 2.962 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.44 Mbit/s
95th percentile per-packet one-way delay: 3.660 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 27.85 Mbit/s
95th percentile per-packet one-way delay: 4.033 ms
Loss rate: 0.03%
```

Run 8: Report of PCC-Vivace — Data Link

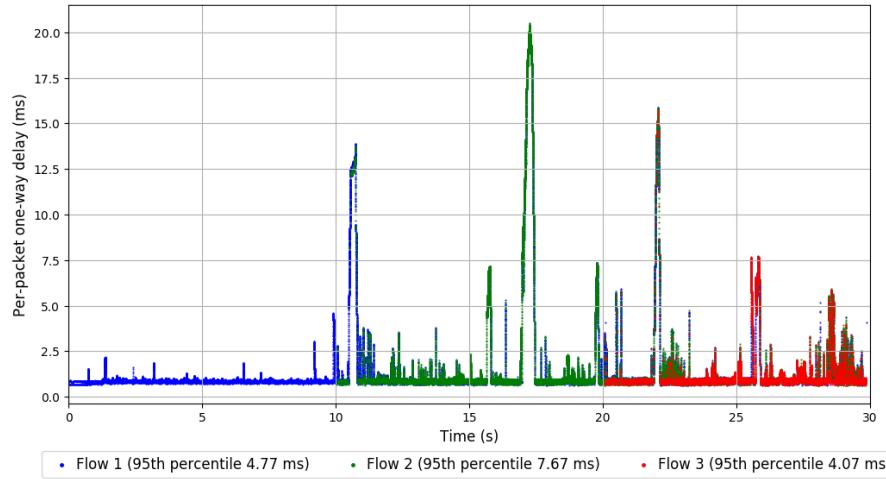
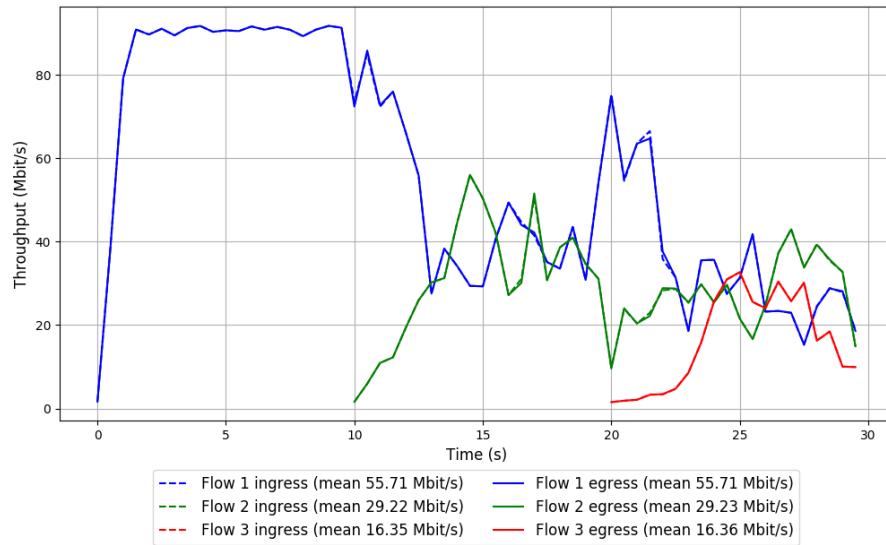


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-24 19:31:47
End at: 2018-04-24 19:32:17
Local clock offset: -5.493 ms
Remote clock offset: -5.492 ms

# Below is generated by plot.py at 2018-04-24 23:46:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 5.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 4.770 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 7.674 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.36 Mbit/s
95th percentile per-packet one-way delay: 4.073 ms
Loss rate: 0.01%
```

Run 9: Report of PCC-Vivace — Data Link

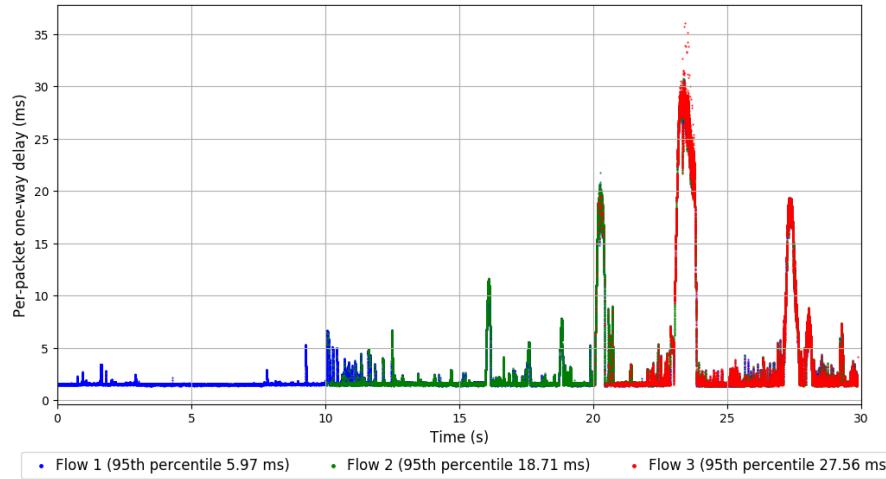
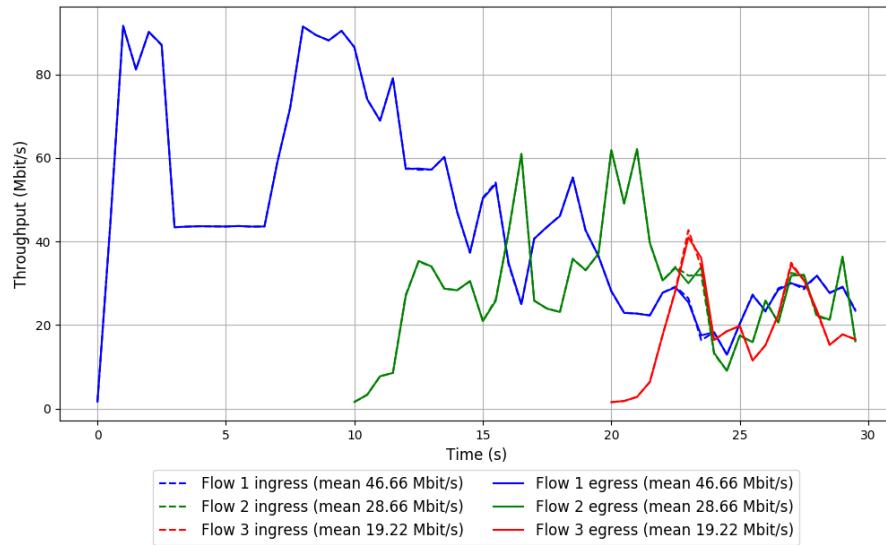


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-24 19:50:58
End at: 2018-04-24 19:51:28
Local clock offset: -4.638 ms
Remote clock offset: -6.322 ms

# Below is generated by plot.py at 2018-04-24 23:46:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 16.604 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 46.66 Mbit/s
95th percentile per-packet one-way delay: 5.966 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 28.66 Mbit/s
95th percentile per-packet one-way delay: 18.715 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 19.22 Mbit/s
95th percentile per-packet one-way delay: 27.561 ms
Loss rate: 0.02%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 17:08:43

End at: 2018-04-24 17:09:13

Local clock offset: -2.224 ms

Remote clock offset: -6.652 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 17:27:53

End at: 2018-04-24 17:28:23

Local clock offset: -0.054 ms

Remote clock offset: -6.861 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 17:47:01
End at: 2018-04-24 17:47:31
Local clock offset: 3.022 ms
Remote clock offset: -5.853 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 18:06:07
End at: 2018-04-24 18:06:37
Local clock offset: 4.386 ms
Remote clock offset: -5.617 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 18:25:17
End at: 2018-04-24 18:25:47
Local clock offset: 0.472 ms
Remote clock offset: -5.414 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 18:44:27
End at: 2018-04-24 18:44:57
Local clock offset: -0.74 ms
Remote clock offset: -5.353 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 19:03:37
End at: 2018-04-24 19:04:07
Local clock offset: -5.365 ms
Remote clock offset: -5.292 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 19:22:47
End at: 2018-04-24 19:23:17
Local clock offset: -5.99 ms
Remote clock offset: -5.455 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 19:41:58

End at: 2018-04-24 19:42:28

Local clock offset: -6.062 ms

Remote clock offset: -5.477 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 20:01:07

End at: 2018-04-24 20:01:37

Local clock offset: -5.158 ms

Remote clock offset: -7.047 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing