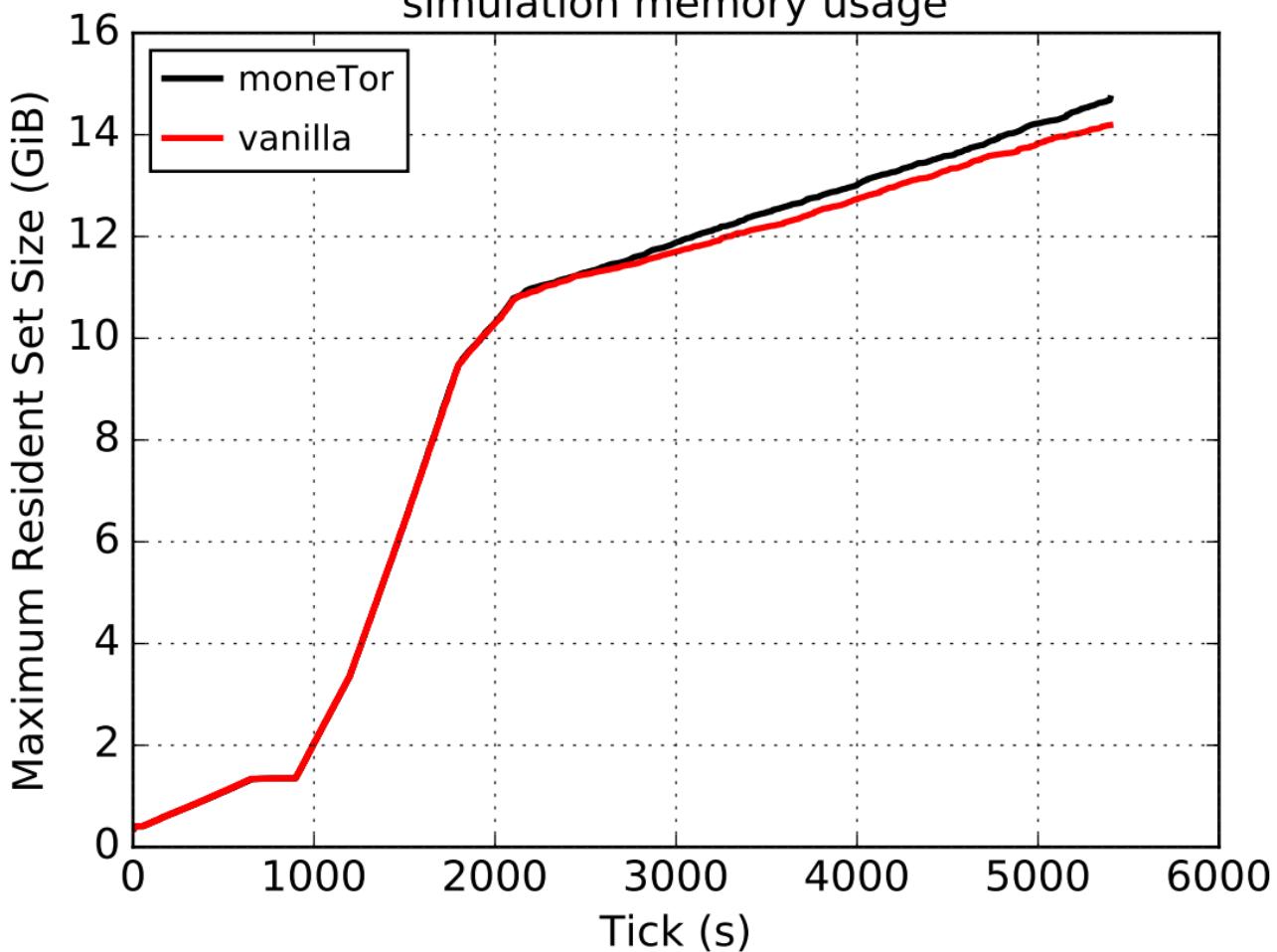
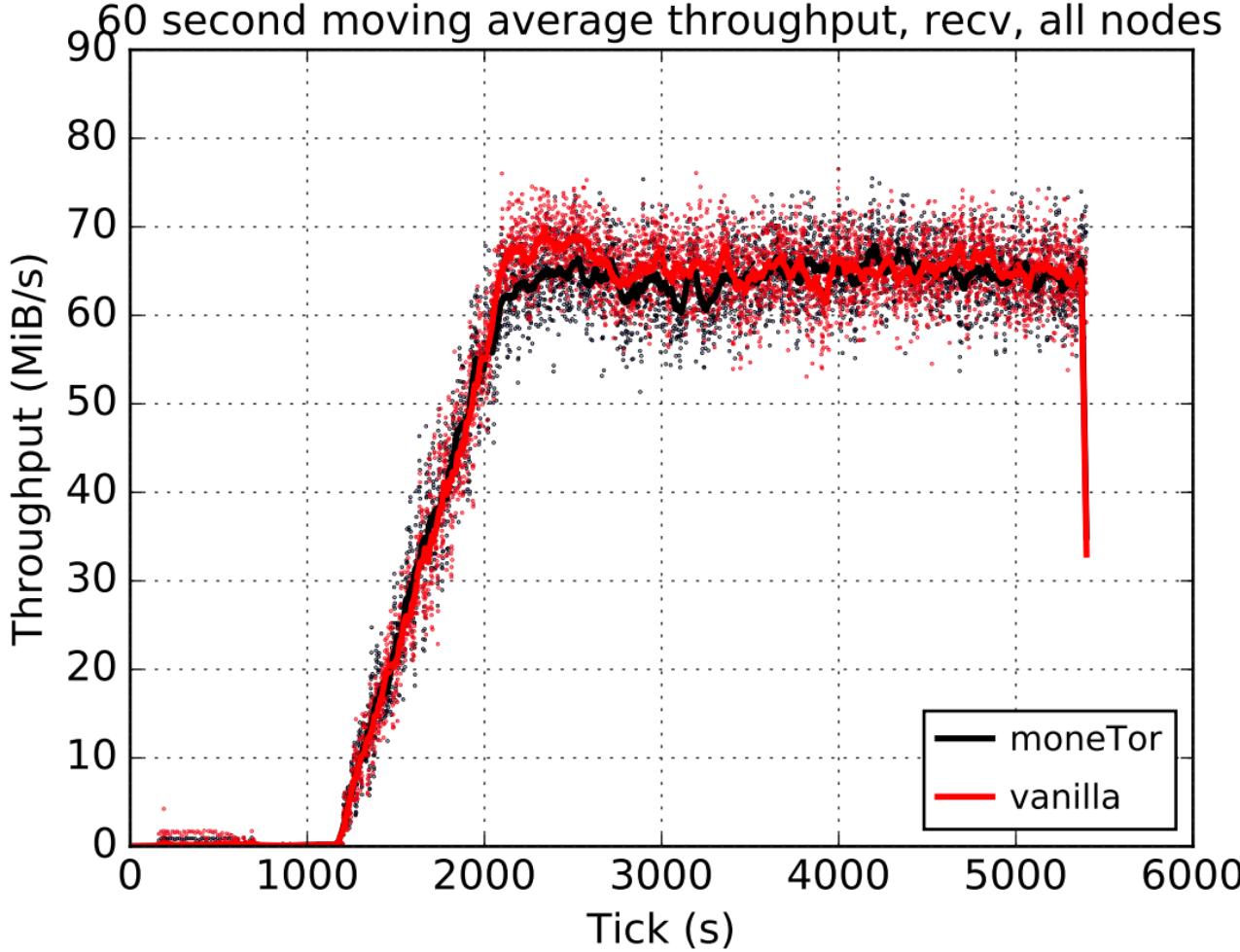
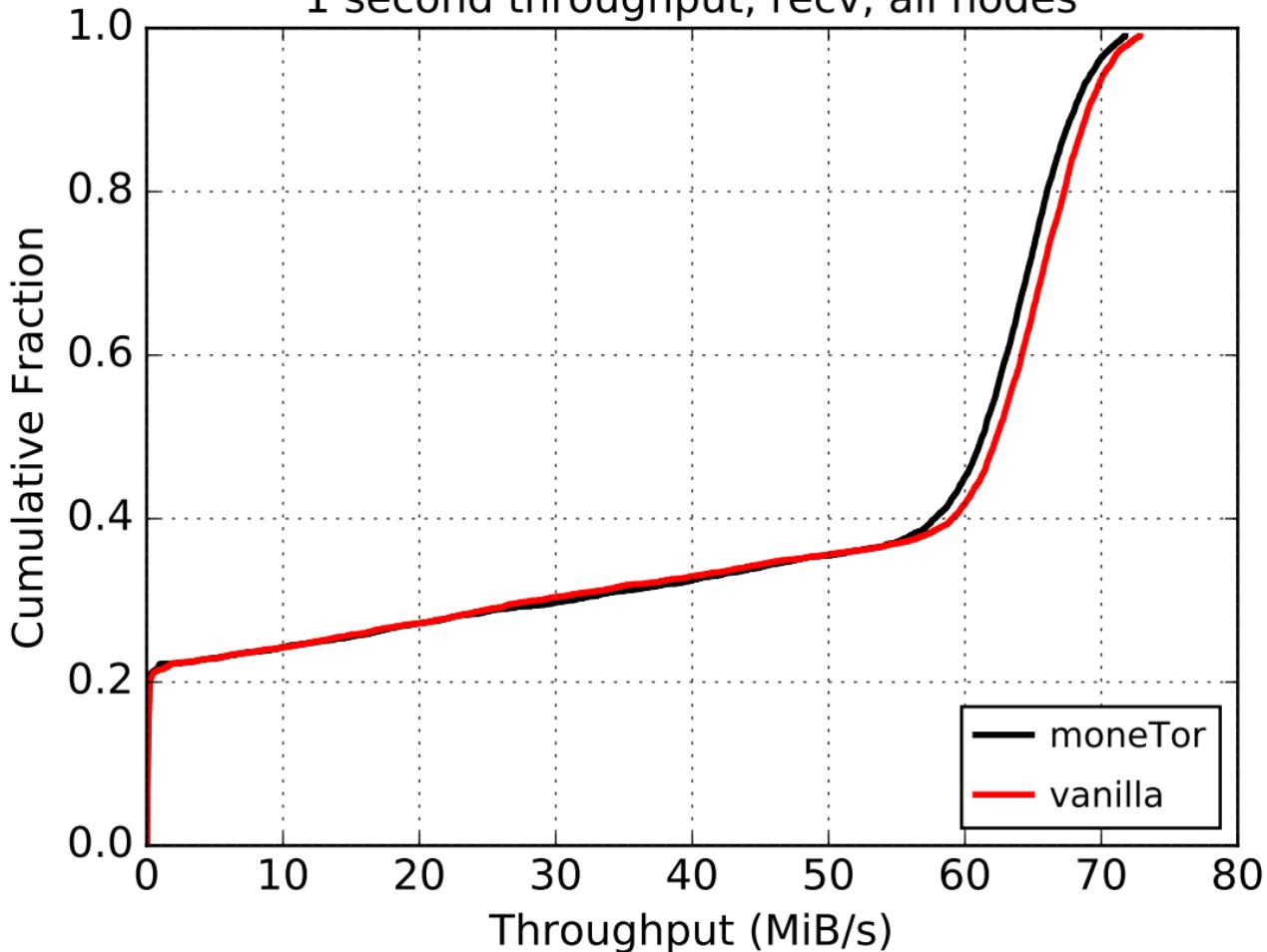


simulation memory usage





1 second throughput, recv, all nodes



1 second throughput, recv, each node

Cumulative Fraction

1.0

0.8

0.6

0.4

0.2

0.0

0.5

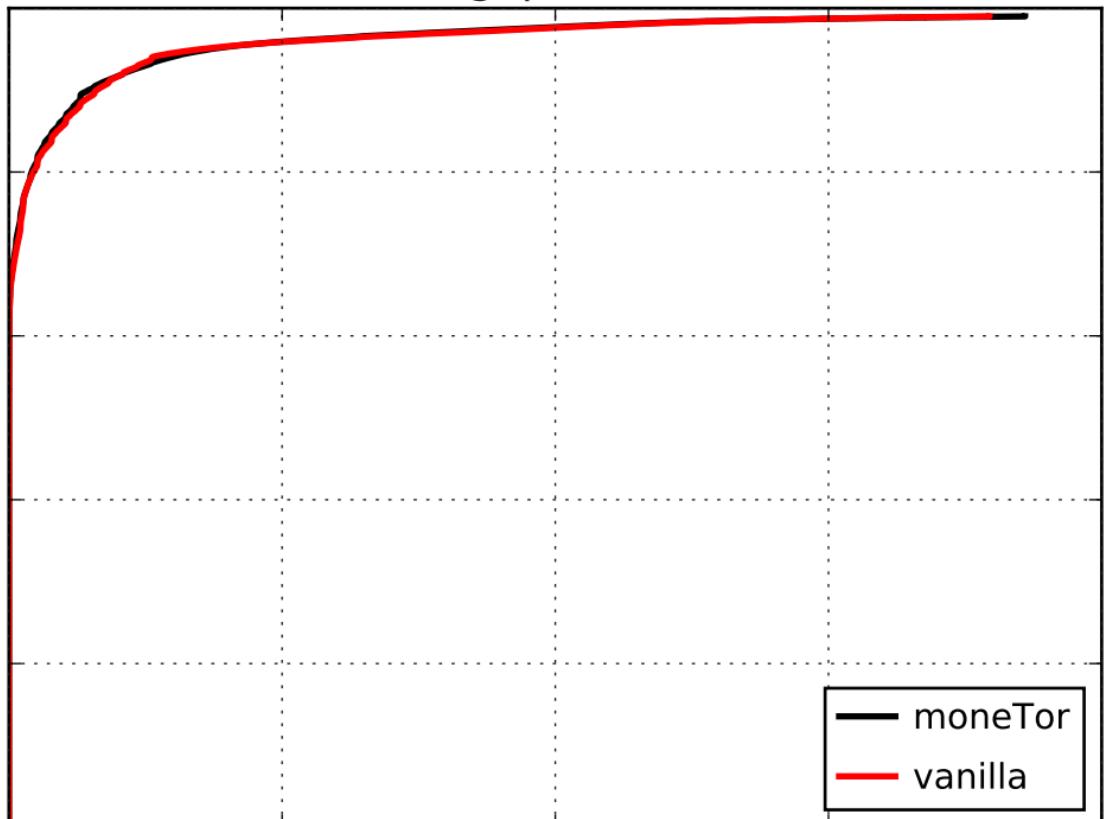
1.0

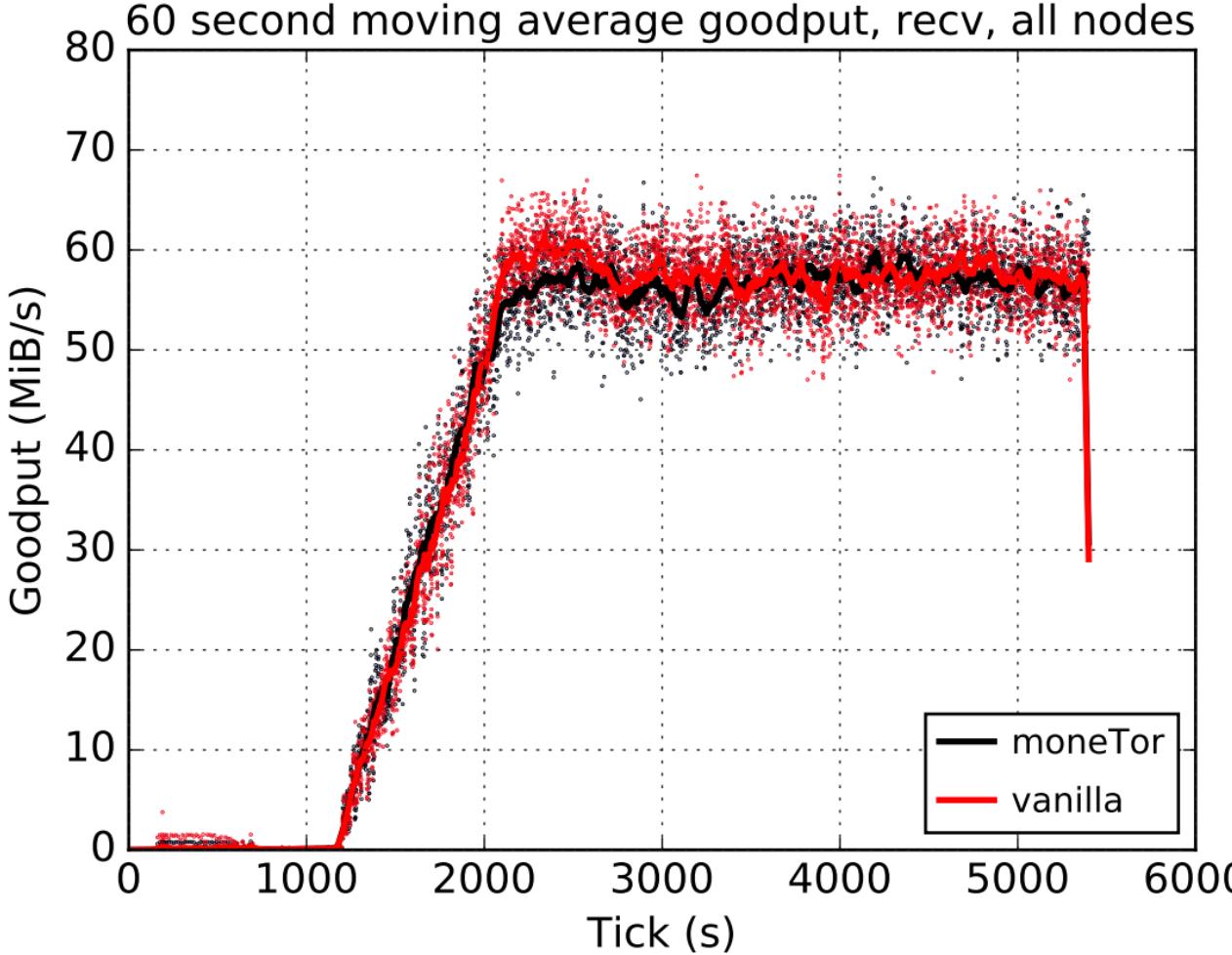
1.5

2.0

Throughput (MiB/s)

moneTor
vanilla





1 second goodput, recv, all nodes

Cumulative Fraction

1.0

0.8

0.6

0.4

0.2

0.0

0

10

20

30

40

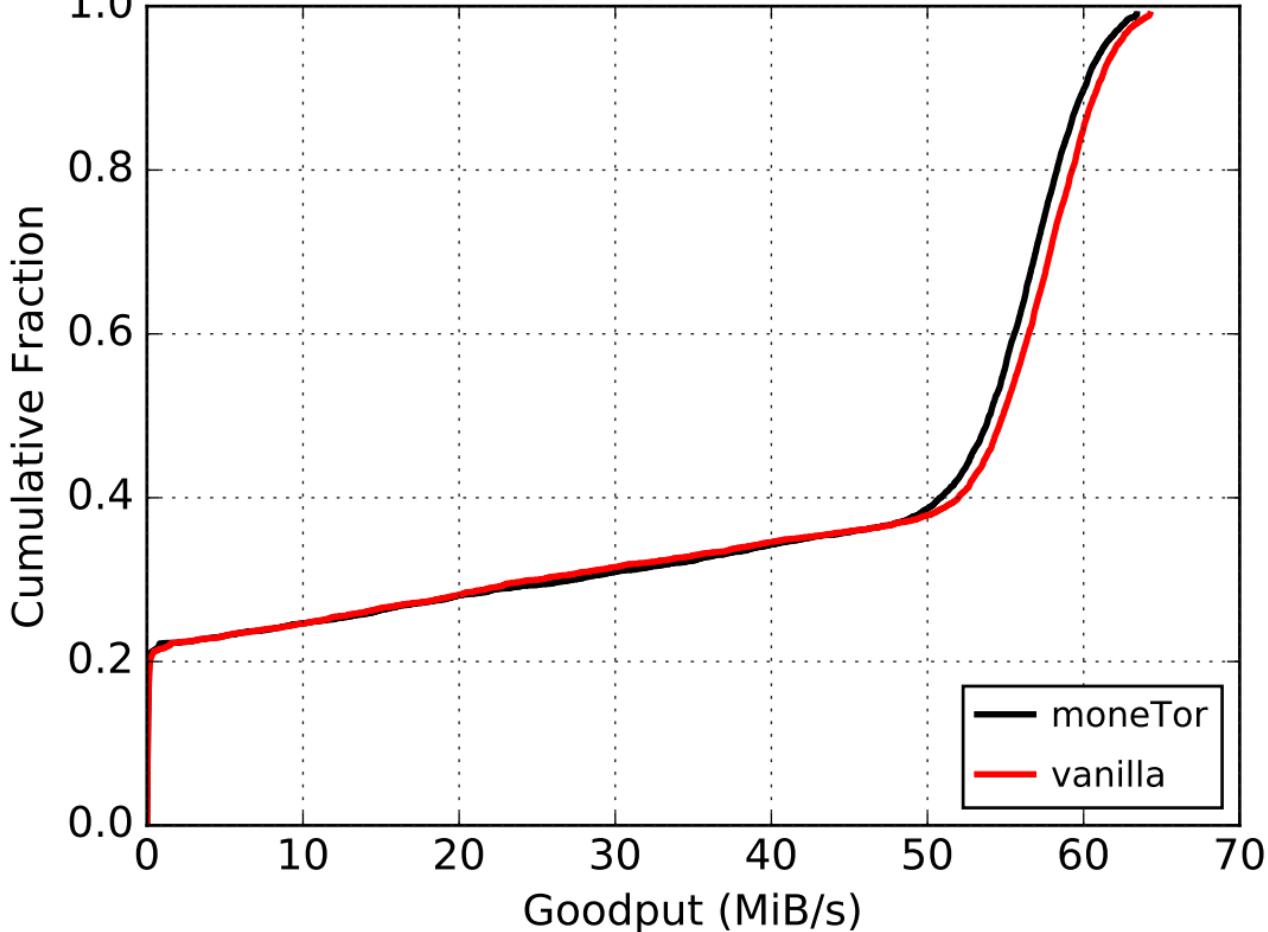
50

60

70

Goodput (MiB/s)

moneTor
vanilla



1 second goodput, recv, each node

Cumulative Fraction

1.0

0.8

0.6

0.4

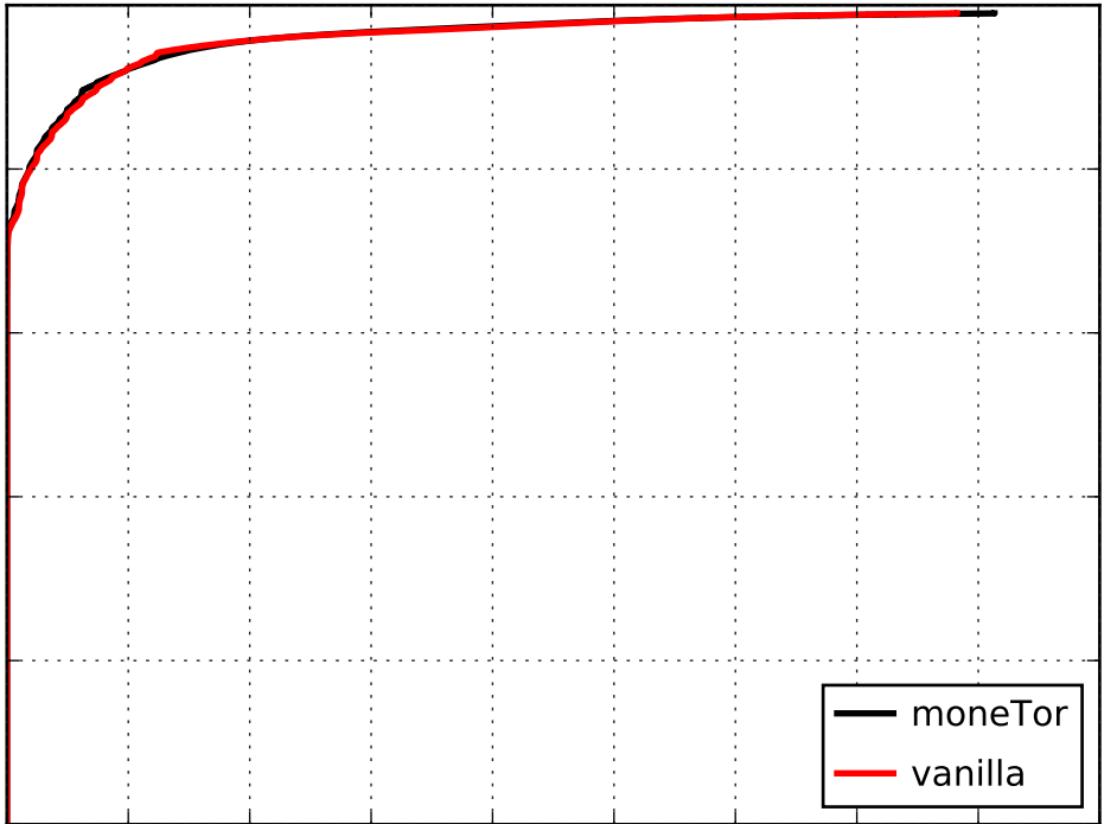
0.2

0.0

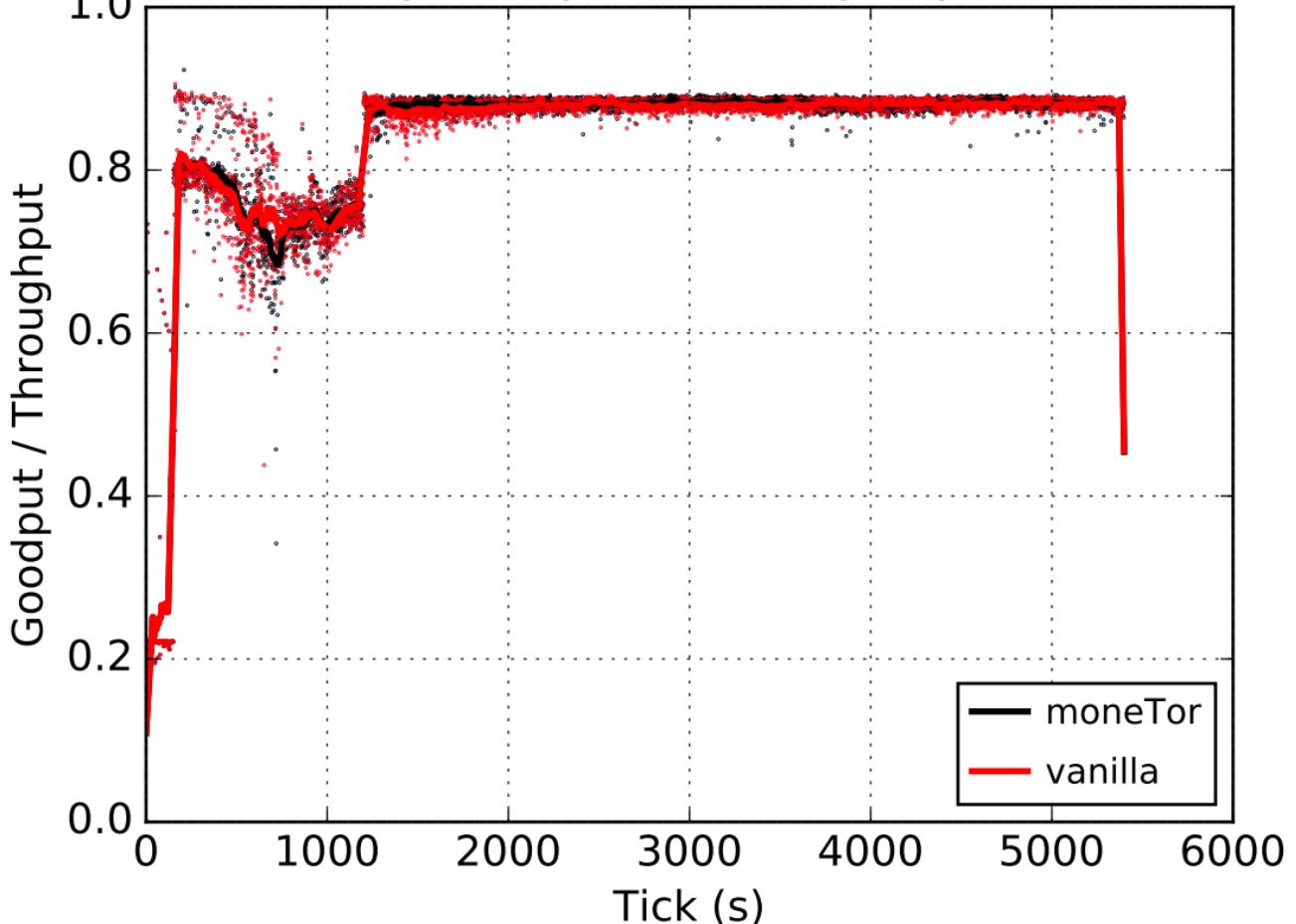
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8

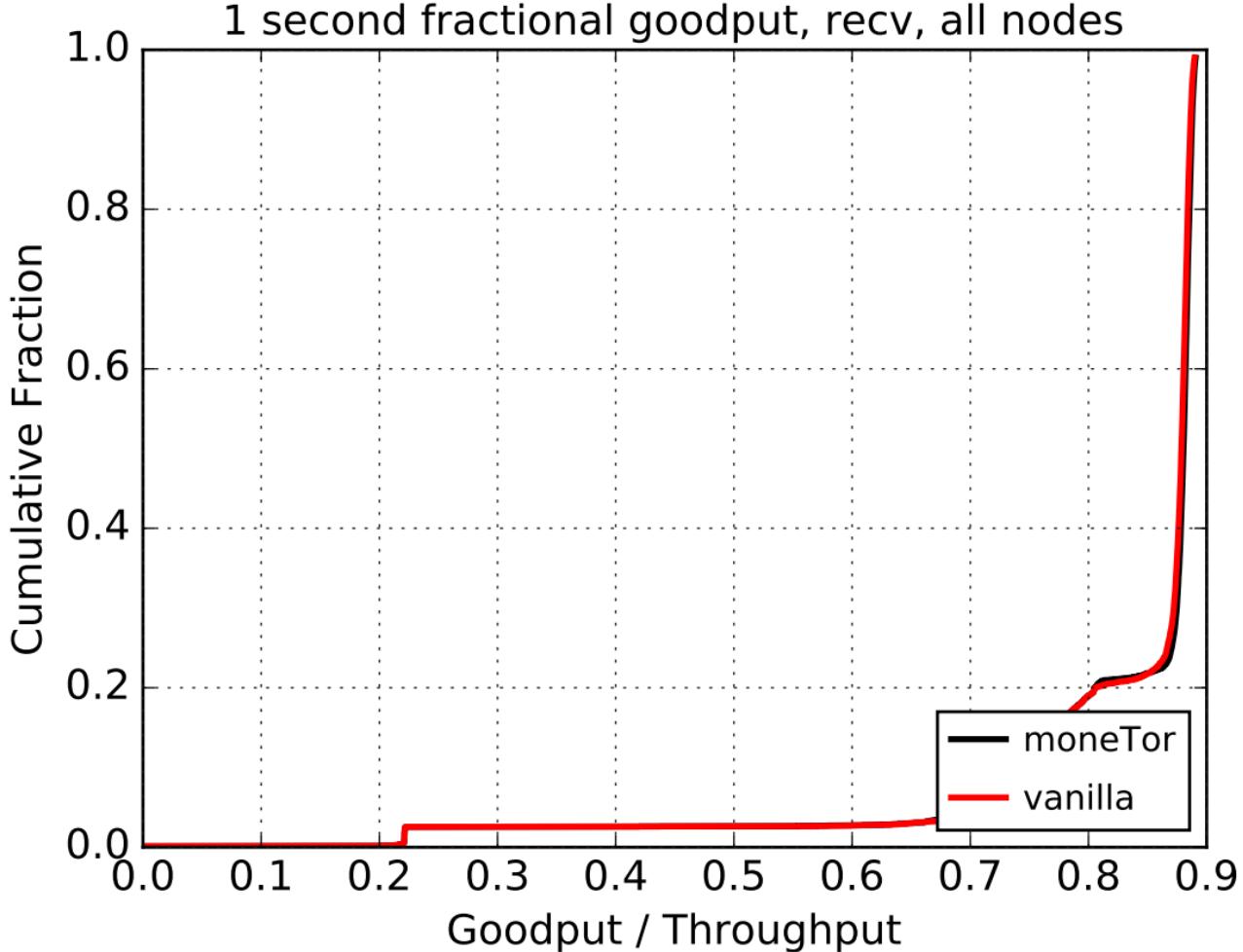
Goodput

moneTor
vanilla

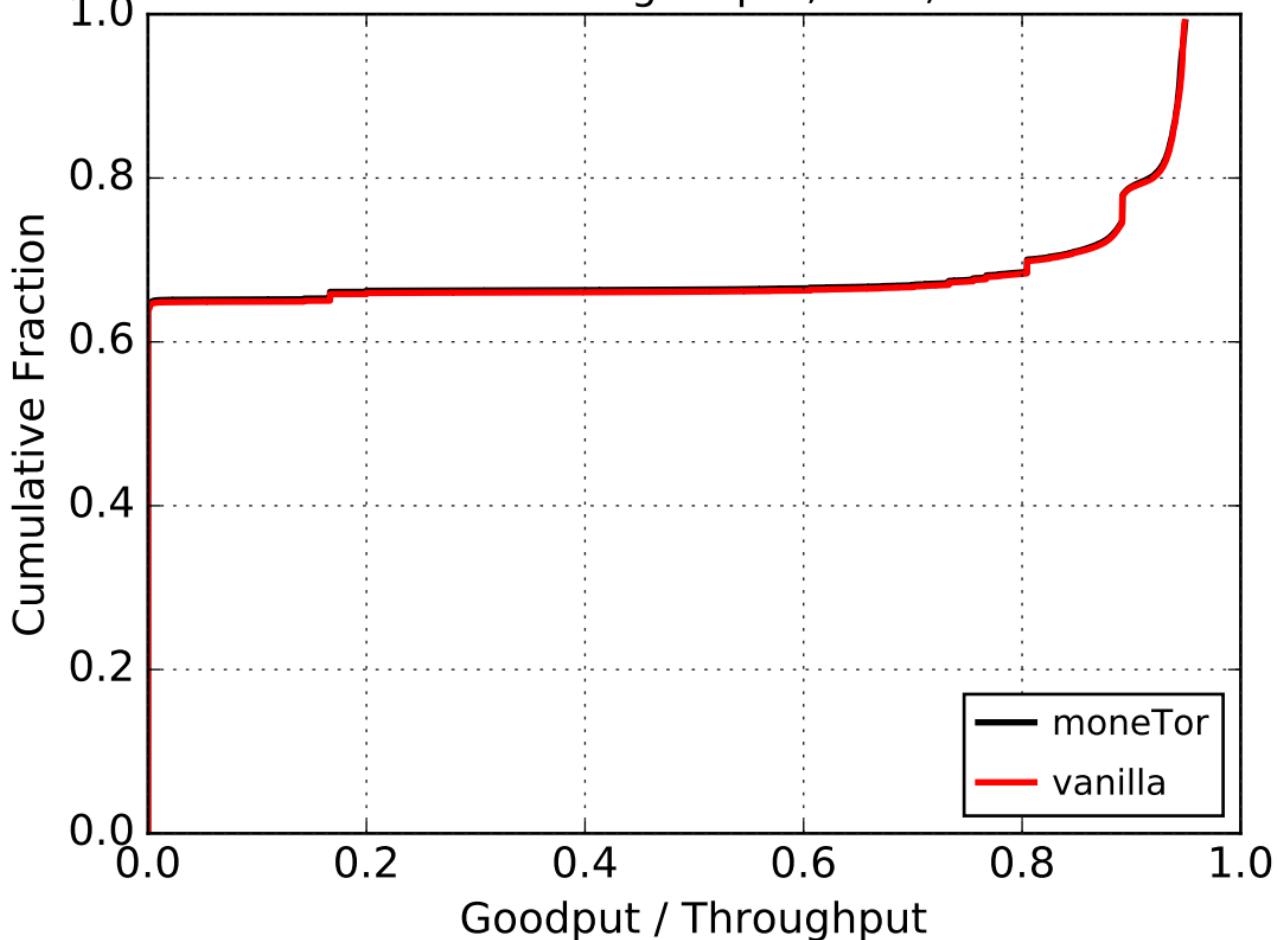


60 second moving average fractional goodput, recv, all node

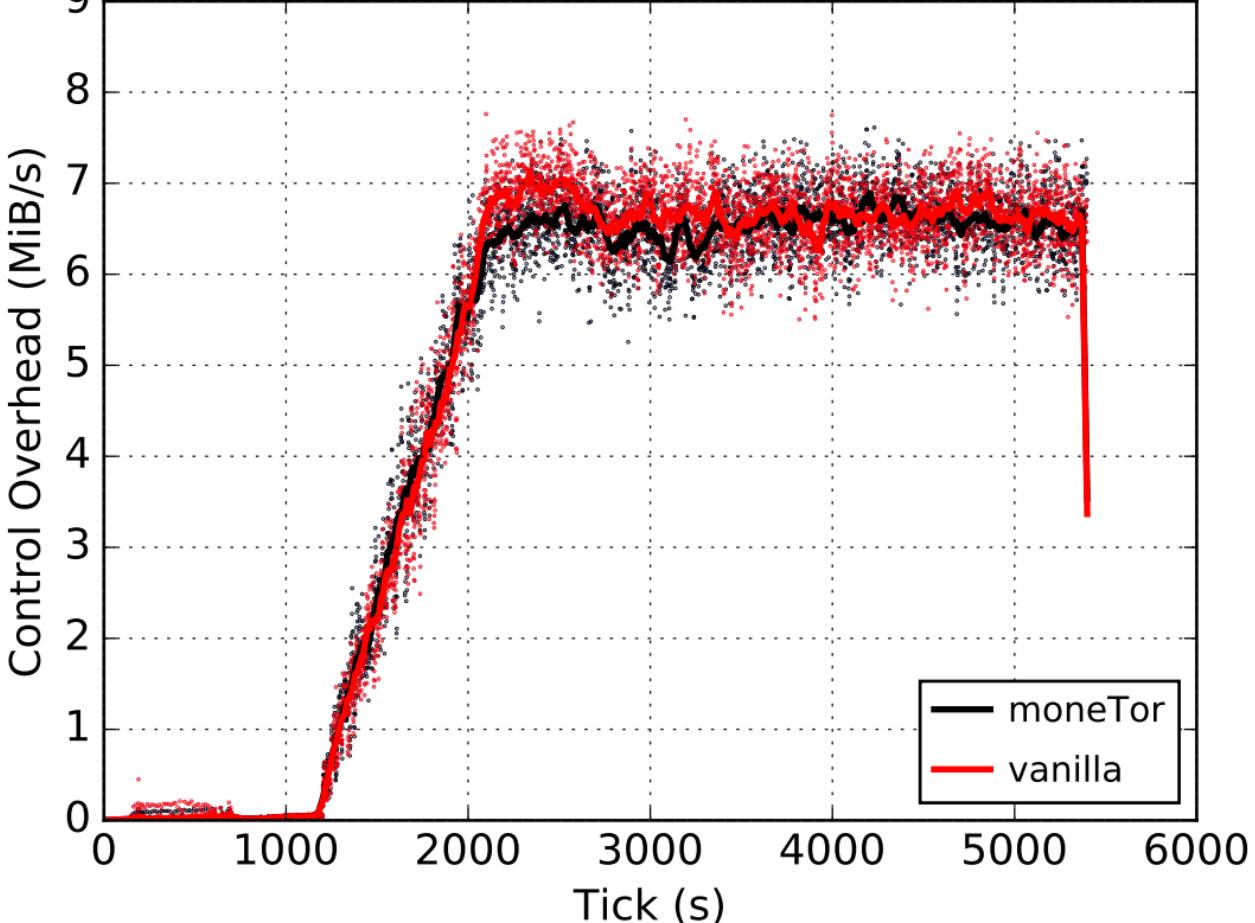




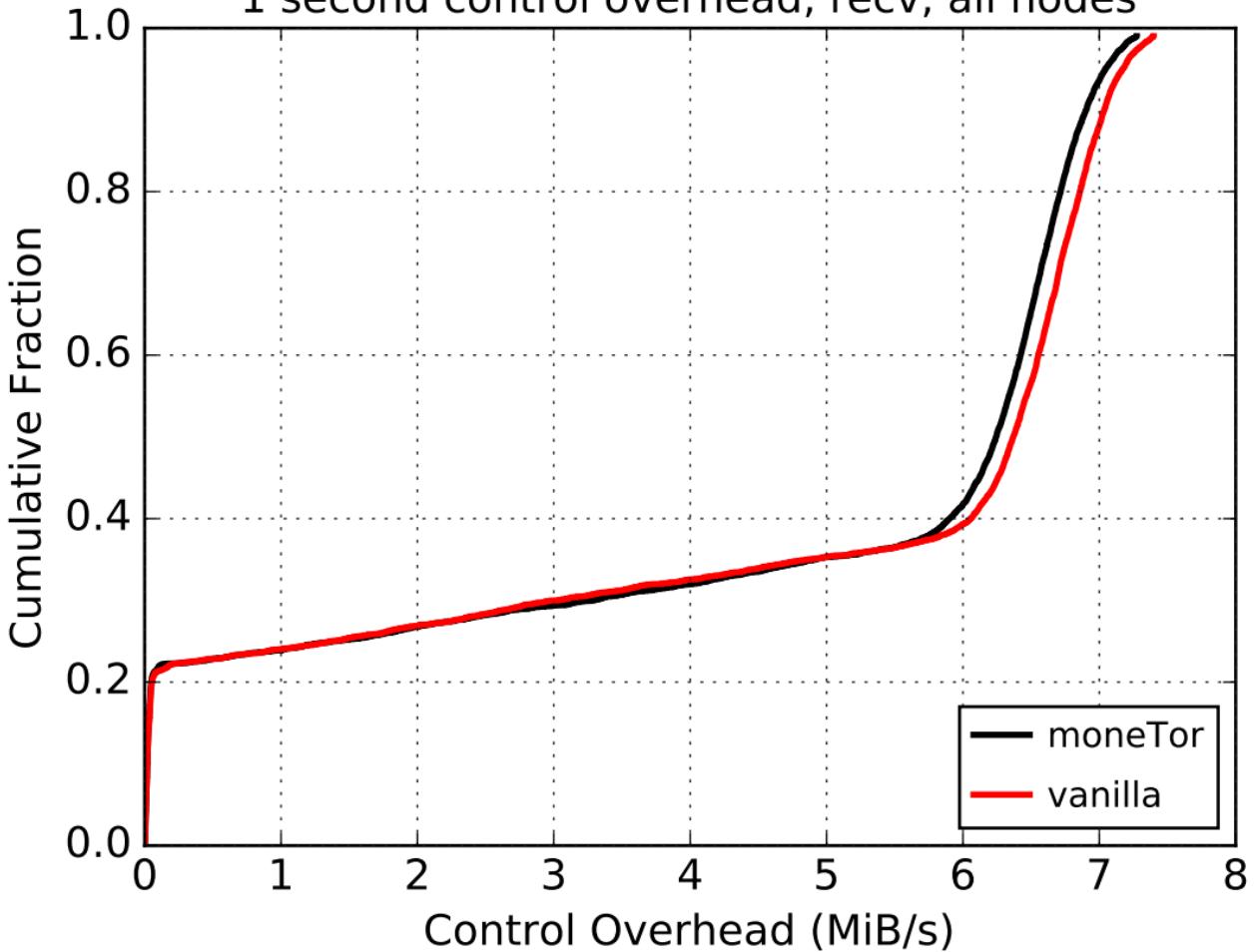
1 second fractional goodput, recv, each node

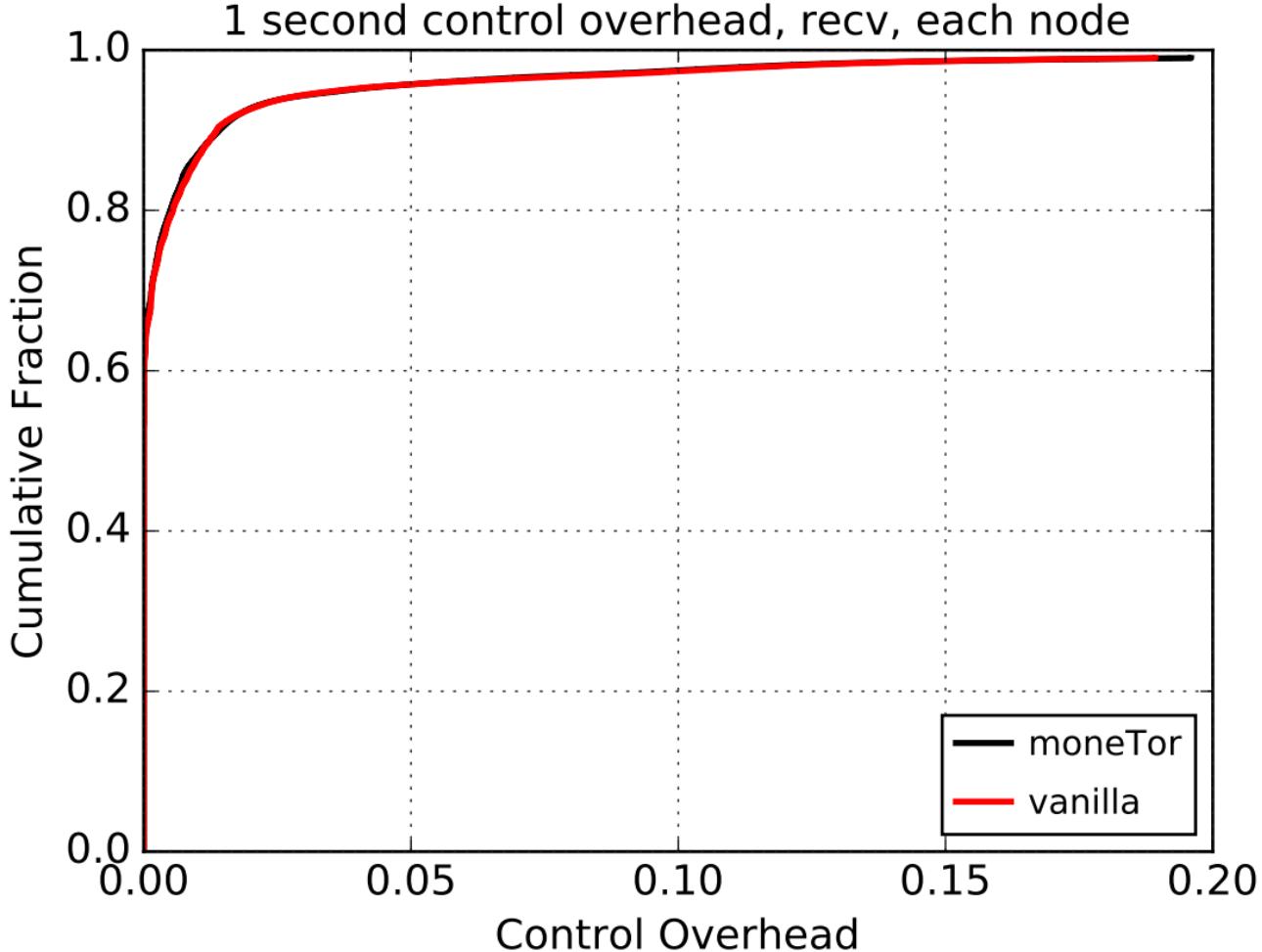


60 second moving average control overhead, recv, all node

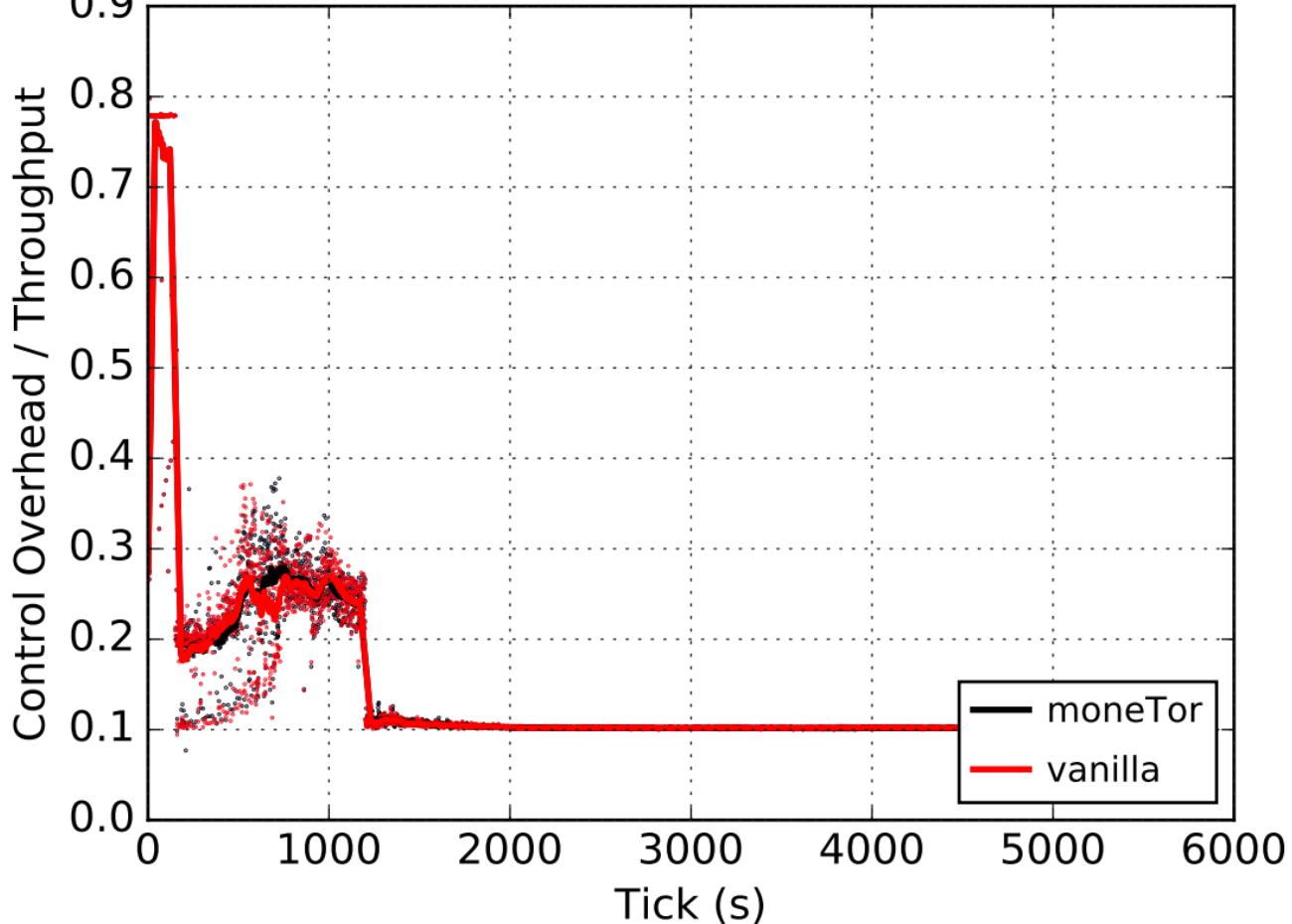


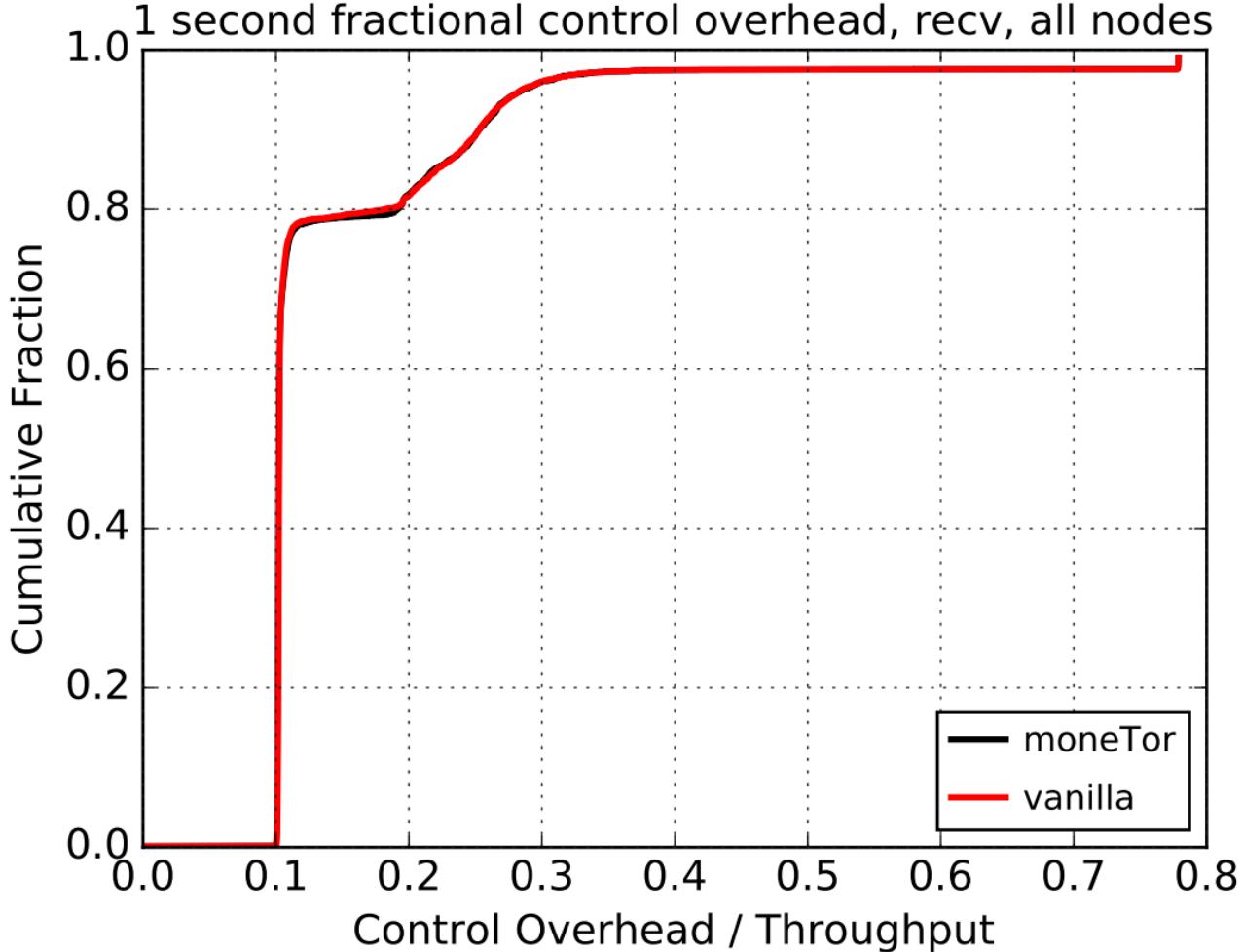
1 second control overhead, recv, all nodes

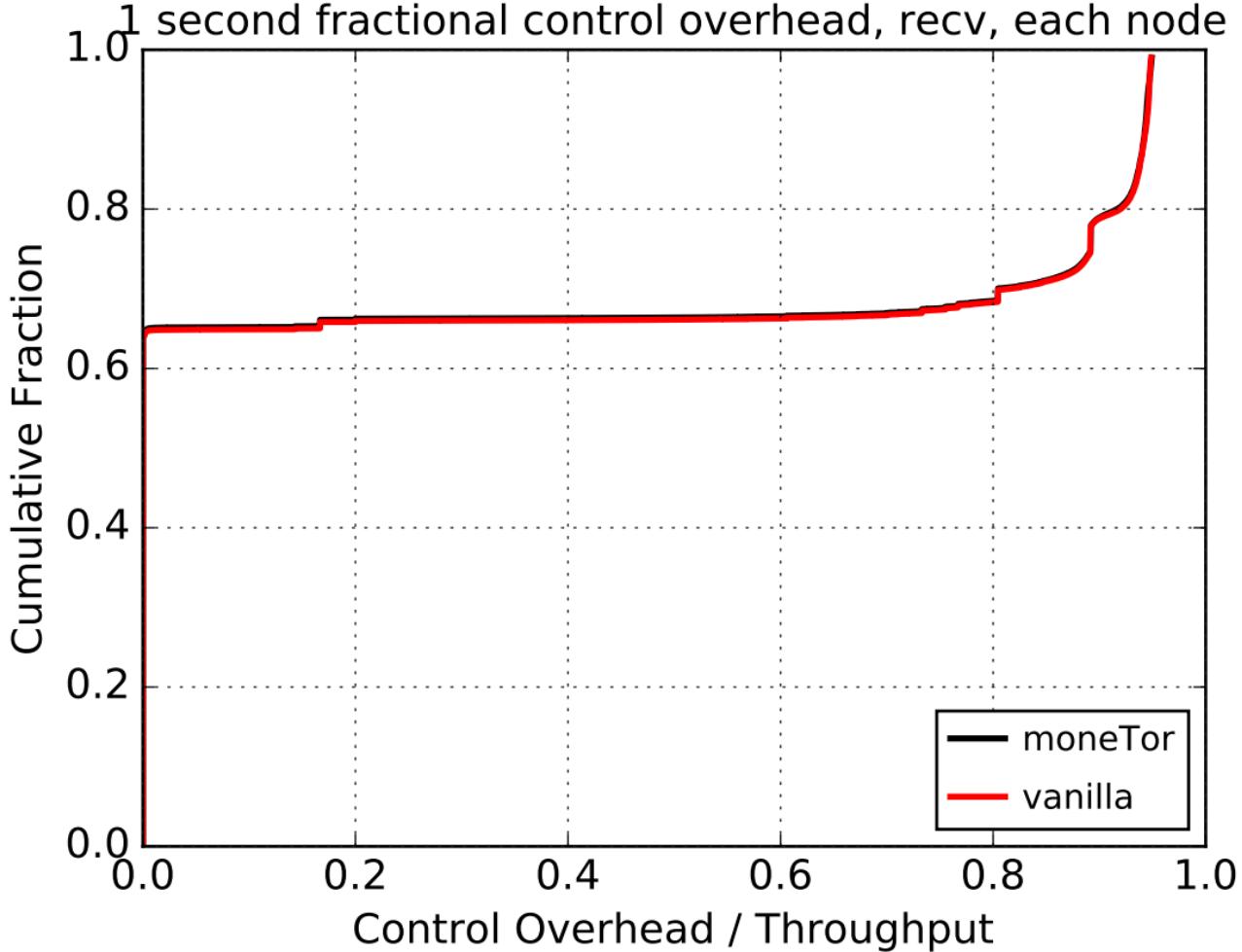




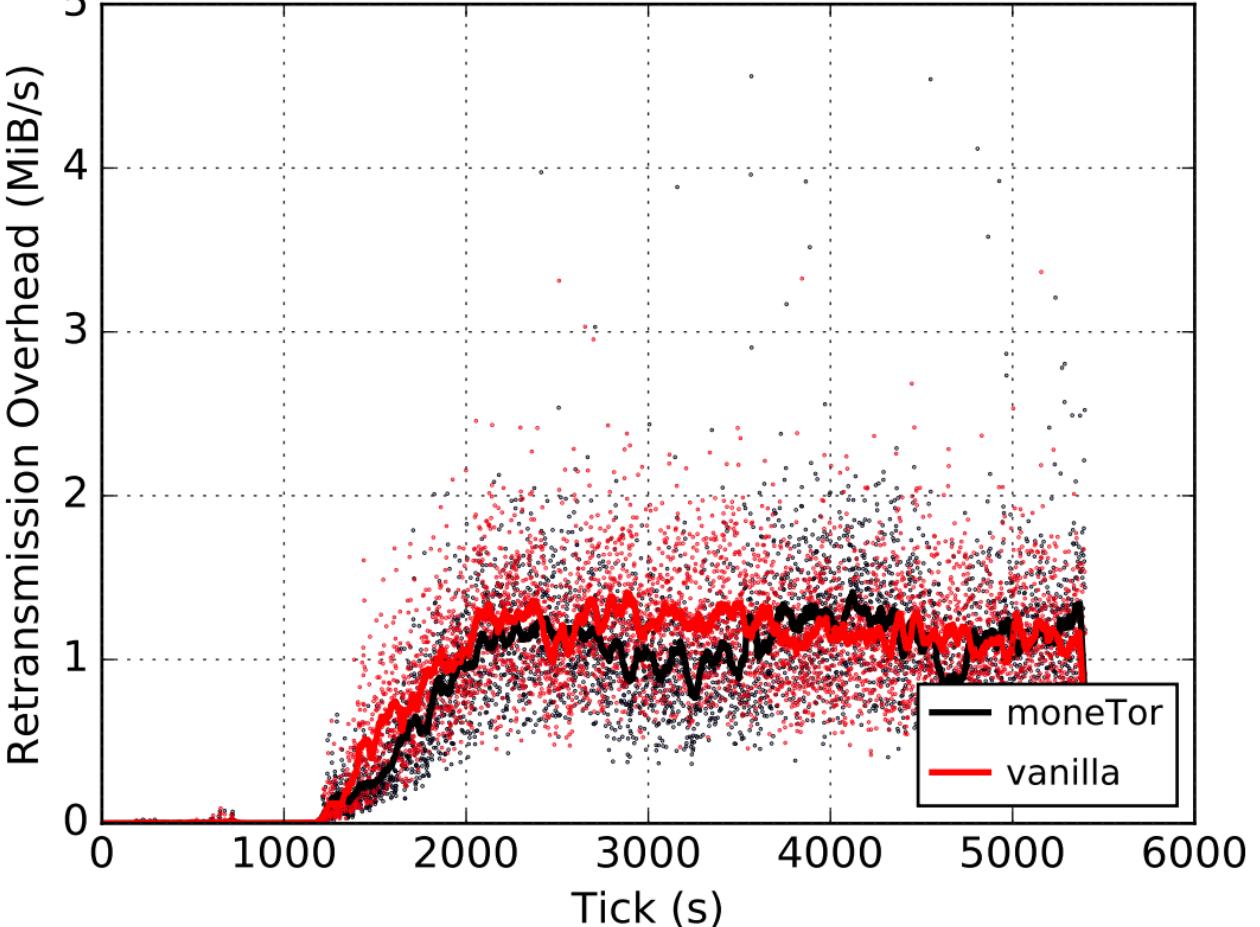
60 second moving average fractional control overhead, recv, all







60 second moving average retrans overhead, recv, all node



1 second retrans overheard, recv, all nodes

Cumulative Fraction

1.0

0.8

0.6

0.4

0.2

0.0

0.0

0.5

1.0

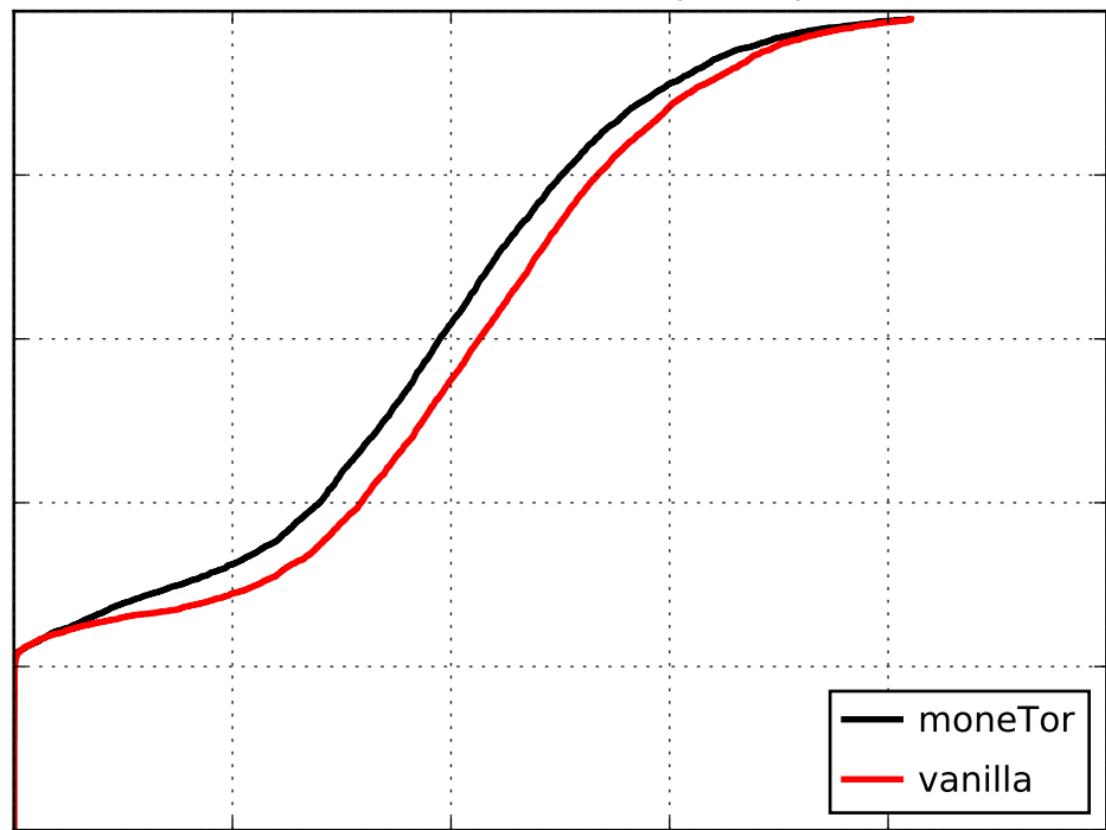
1.5

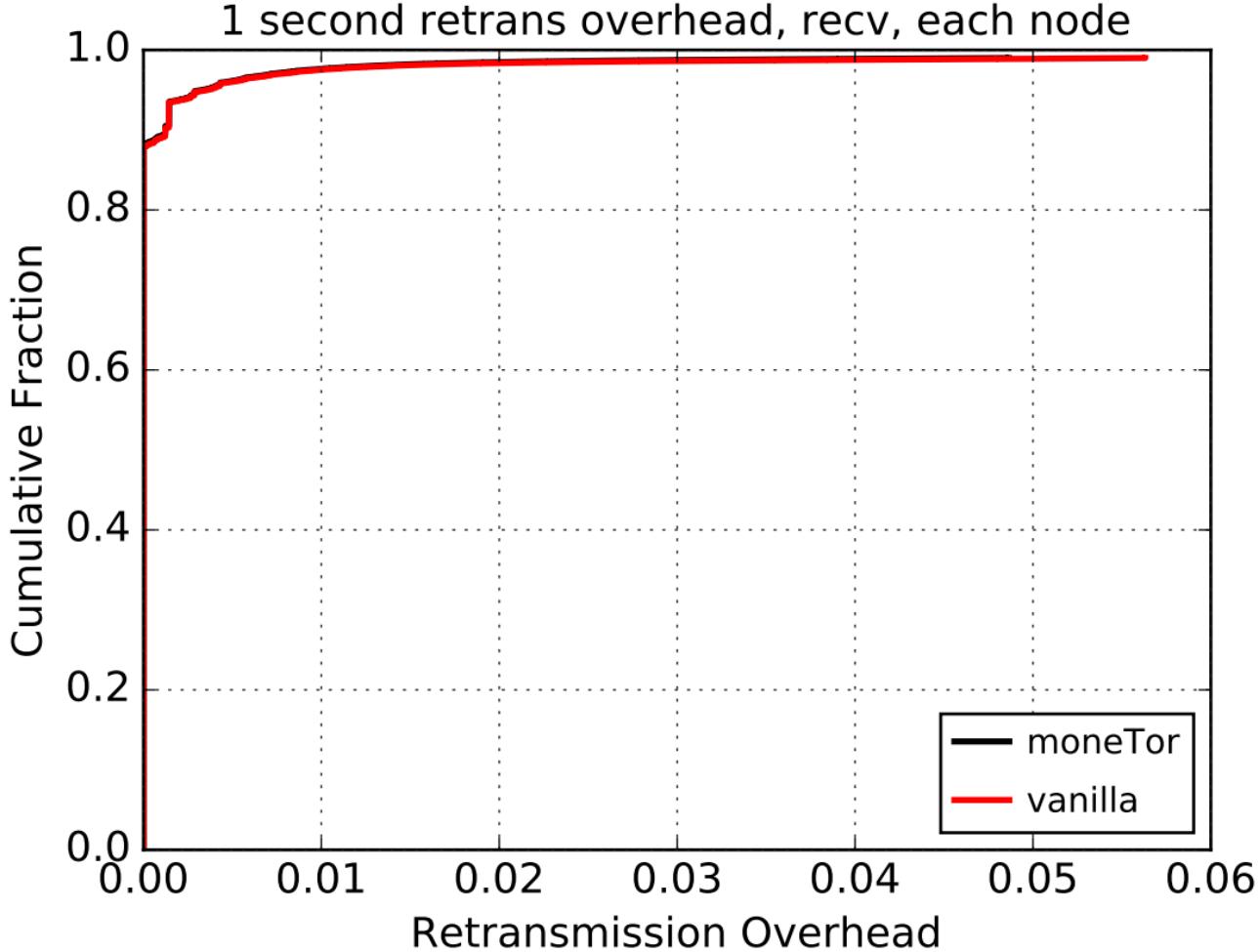
2.0

2.5

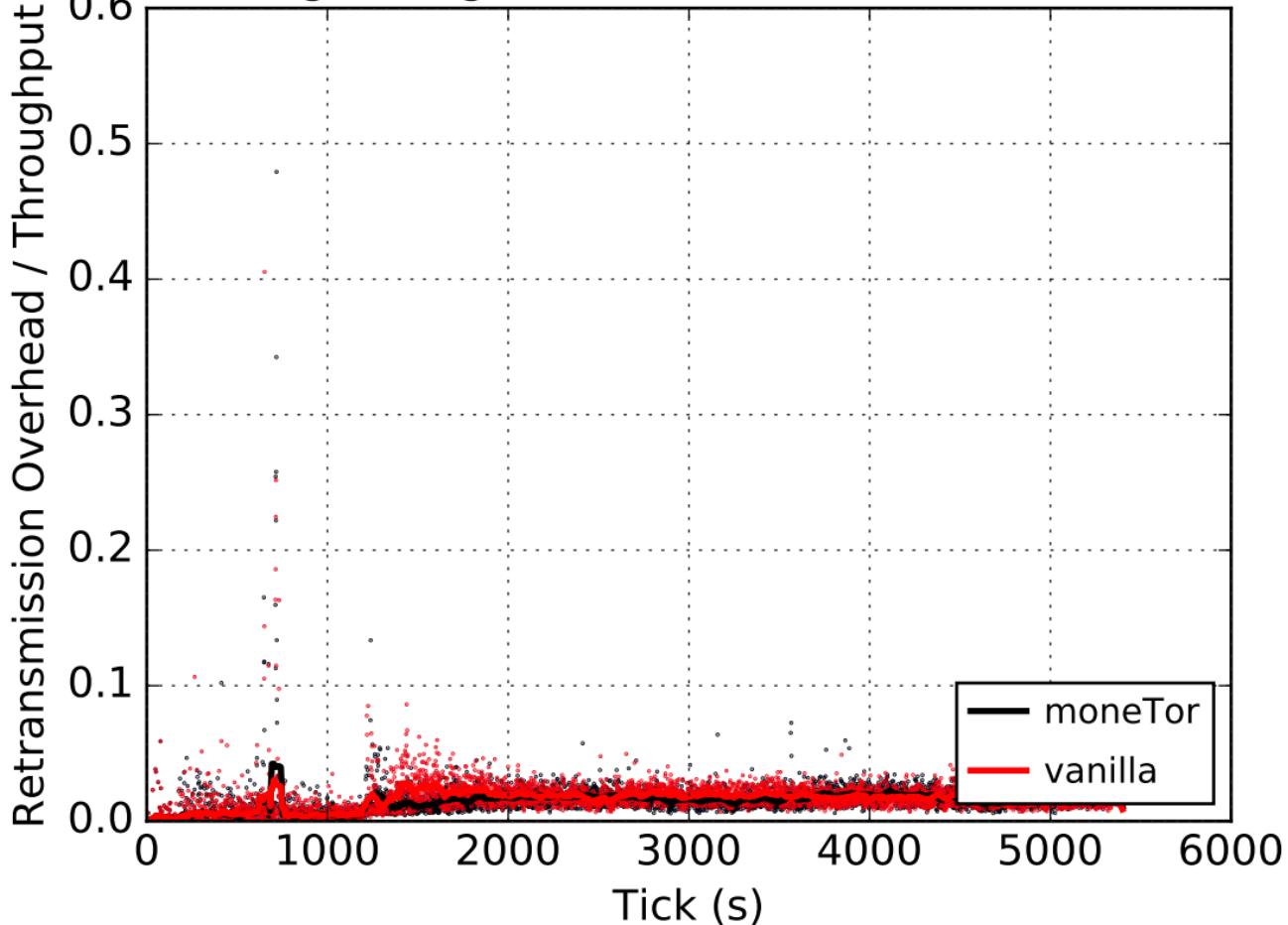
Retransmission Overhead (MiB/s)

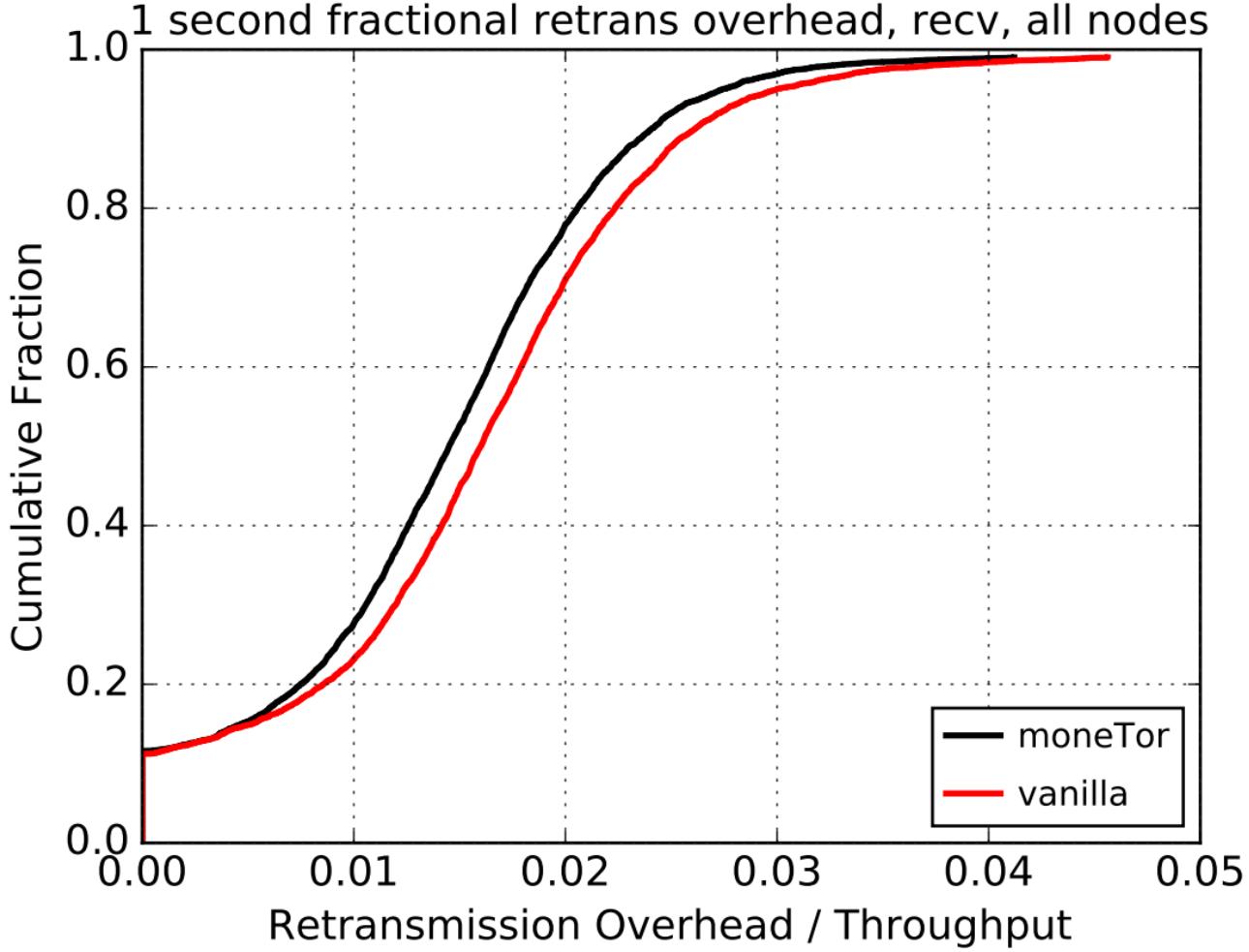
moneTor
vanilla

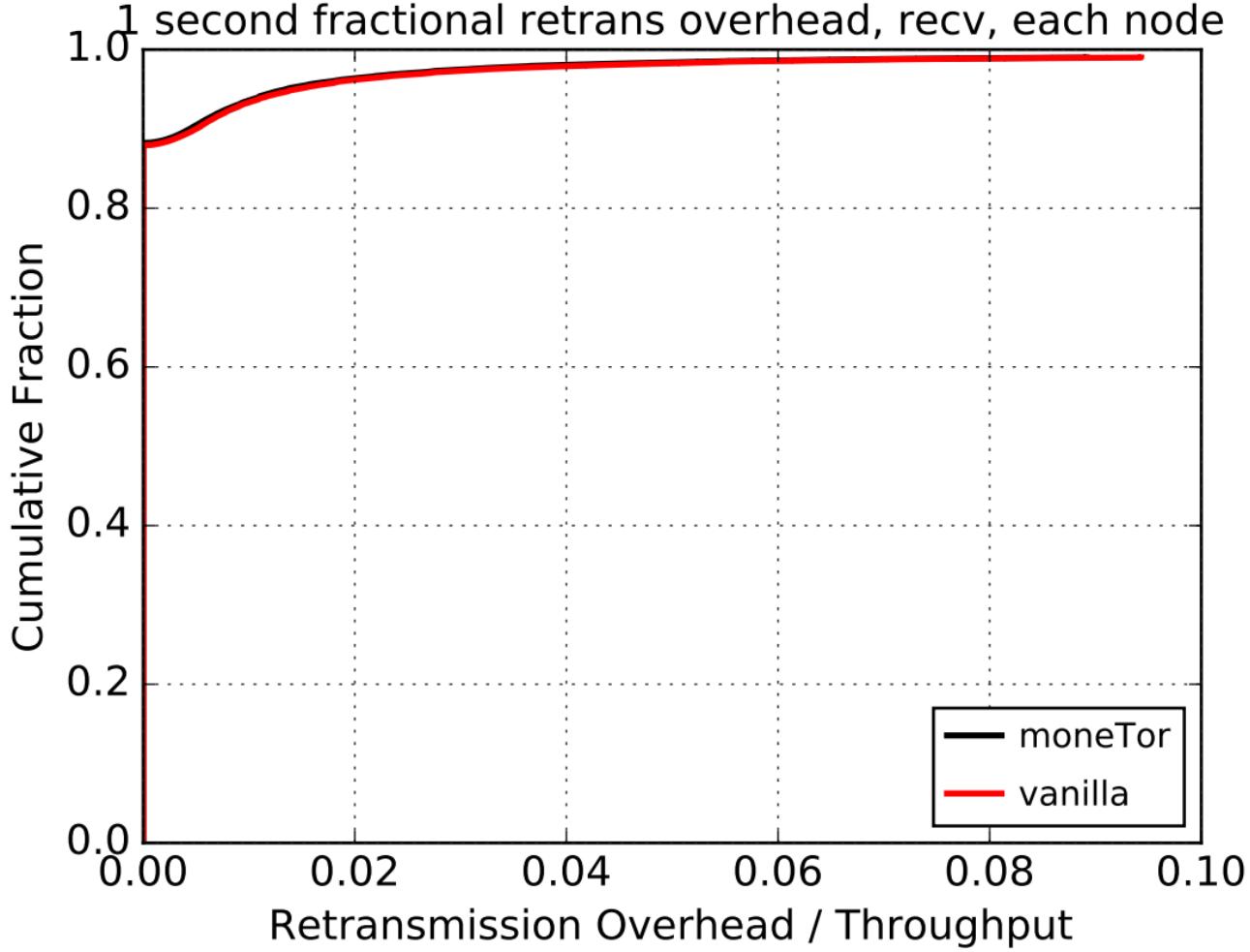


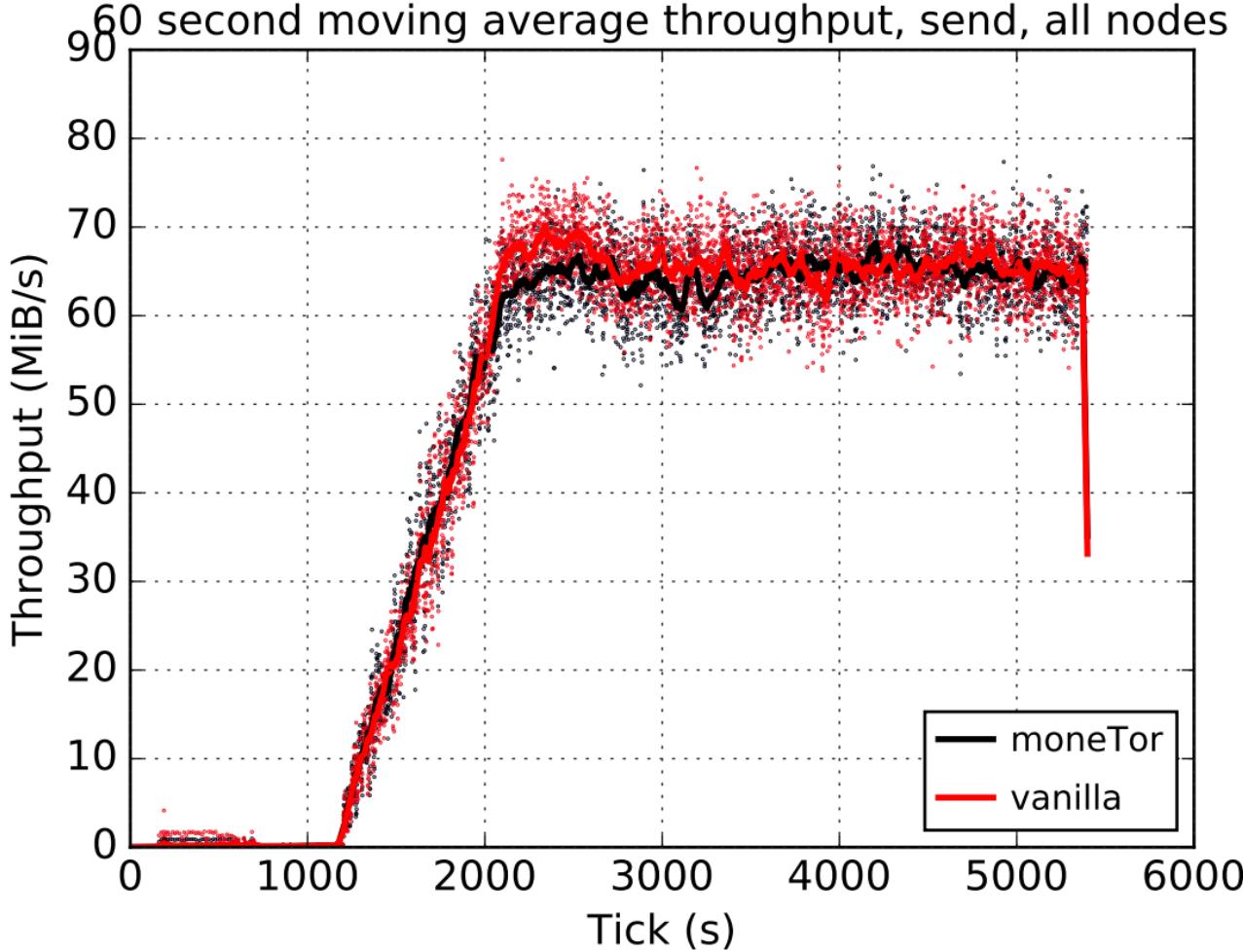


60 second moving average fractional retrans overheard, recv, all

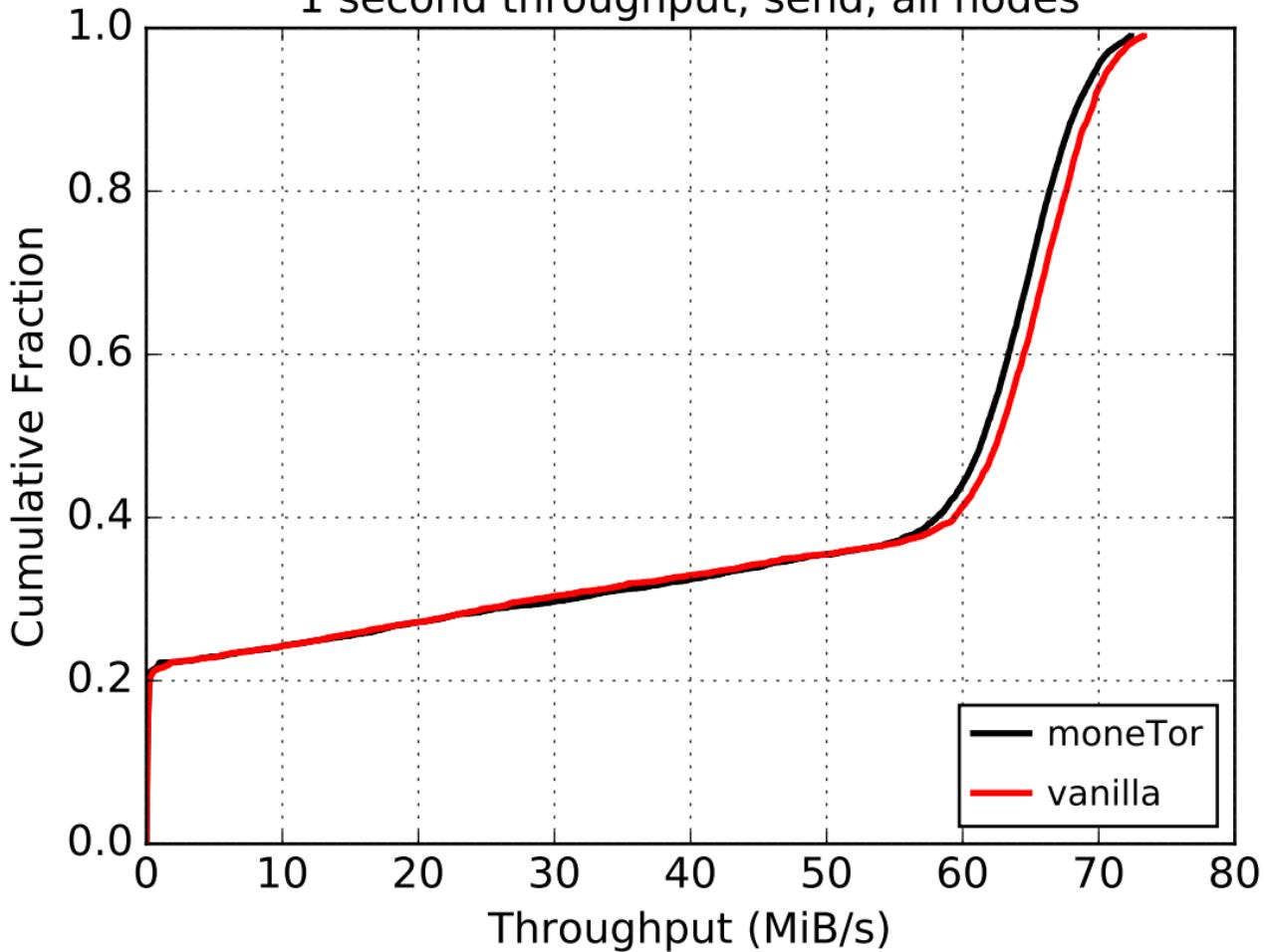








1 second throughput, send, all nodes



1 second throughput, send, each node

Cumulative Fraction

1.0

0.8

0.6

0.4

0.2

0.0

0.0

0.5

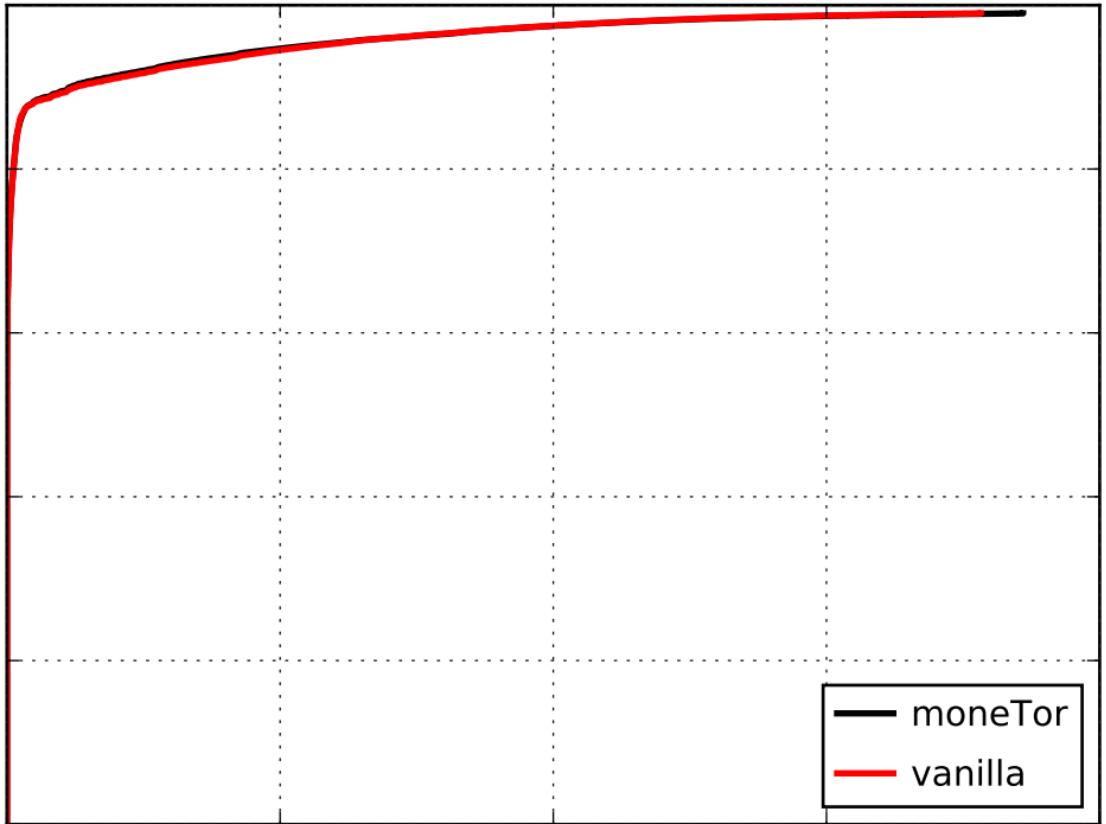
1.0

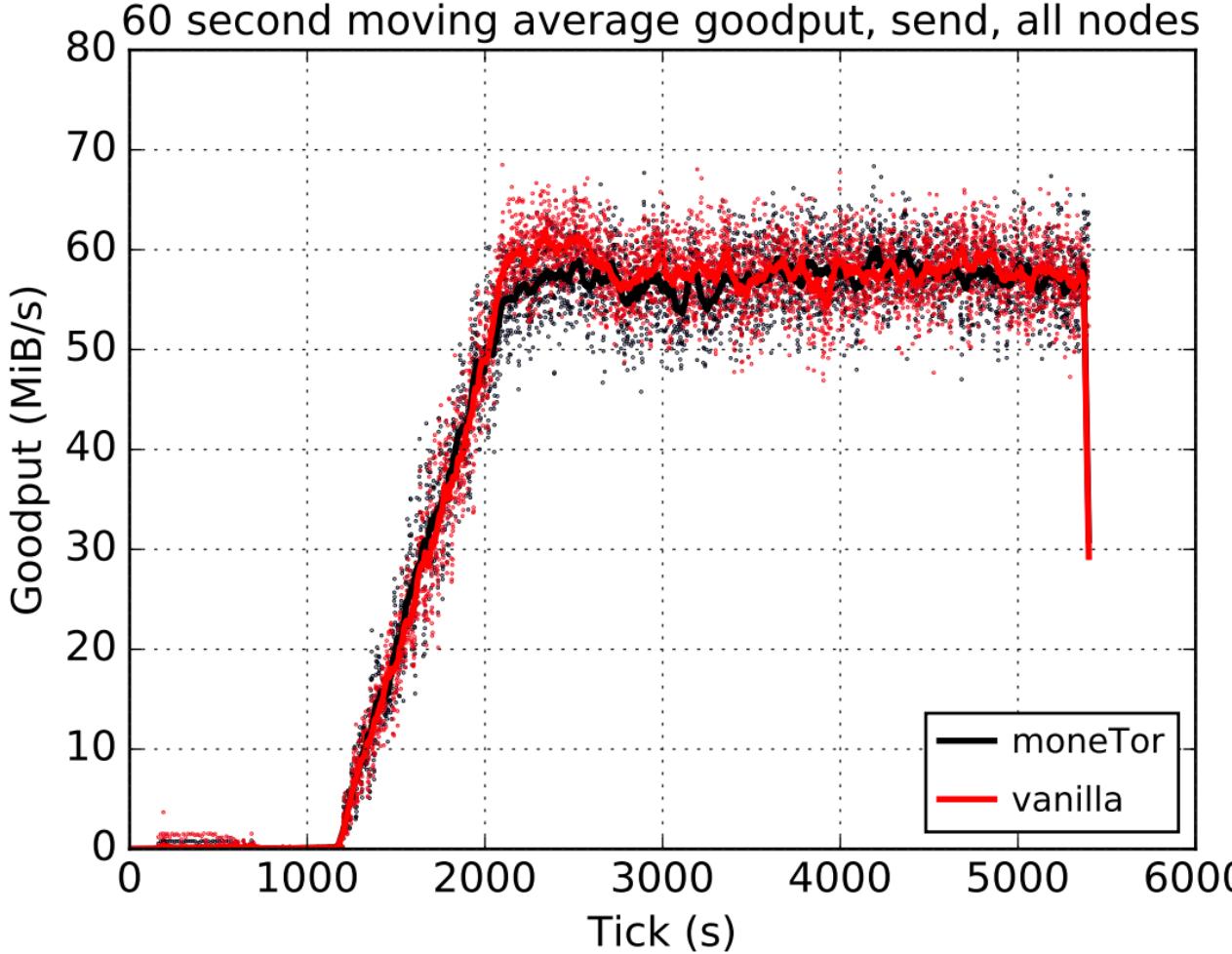
1.5

2.0

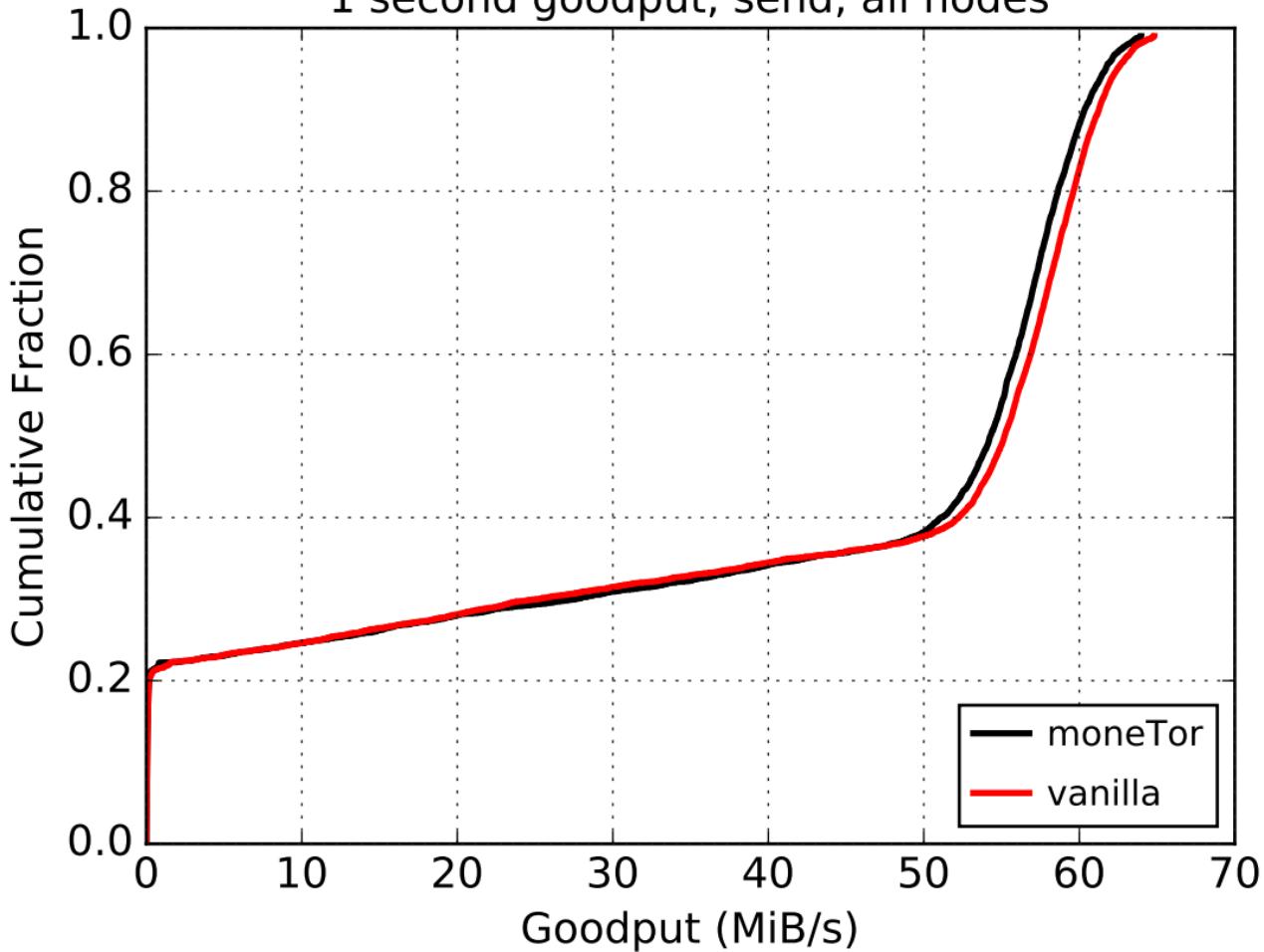
Throughput (MiB/s)

moneTor
vanilla





1 second goodput, send, all nodes



1 second goodput, send, each node

Cumulative Fraction

1.0

0.8

0.6

0.4

0.2

0.0

0.0

0.2

0.4

0.6

0.8

1.0

1.2

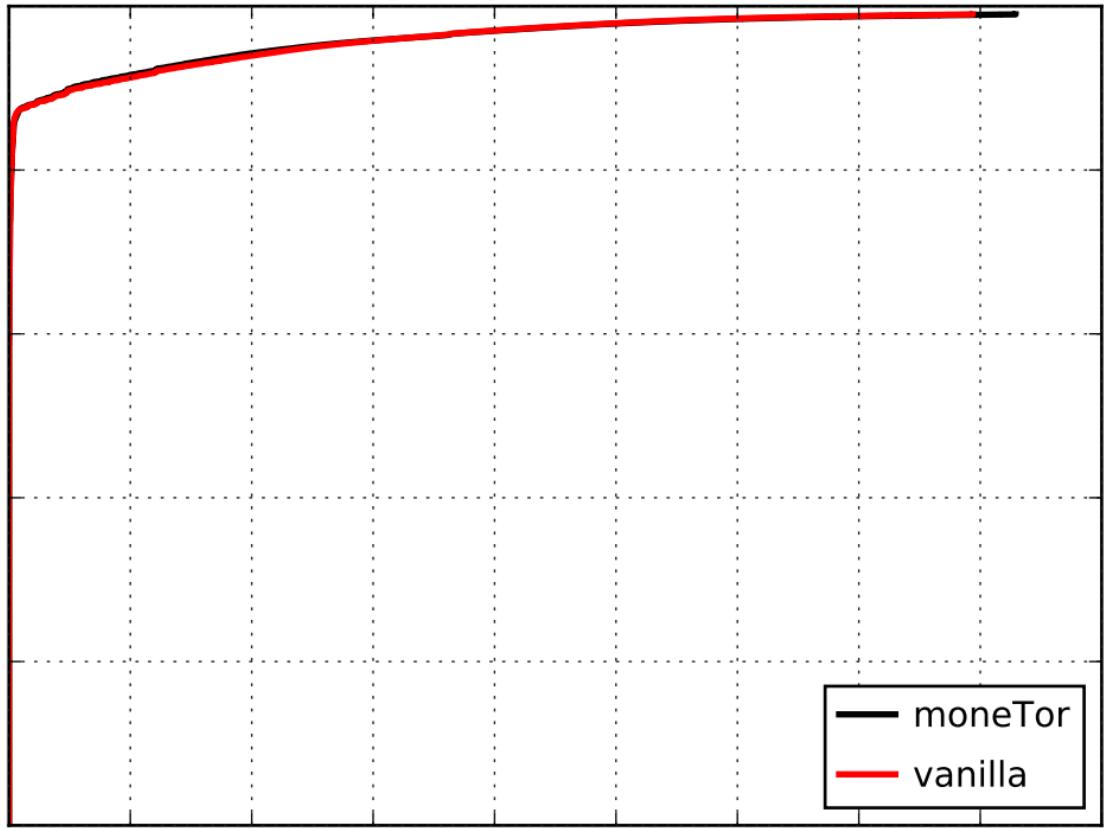
1.4

1.6

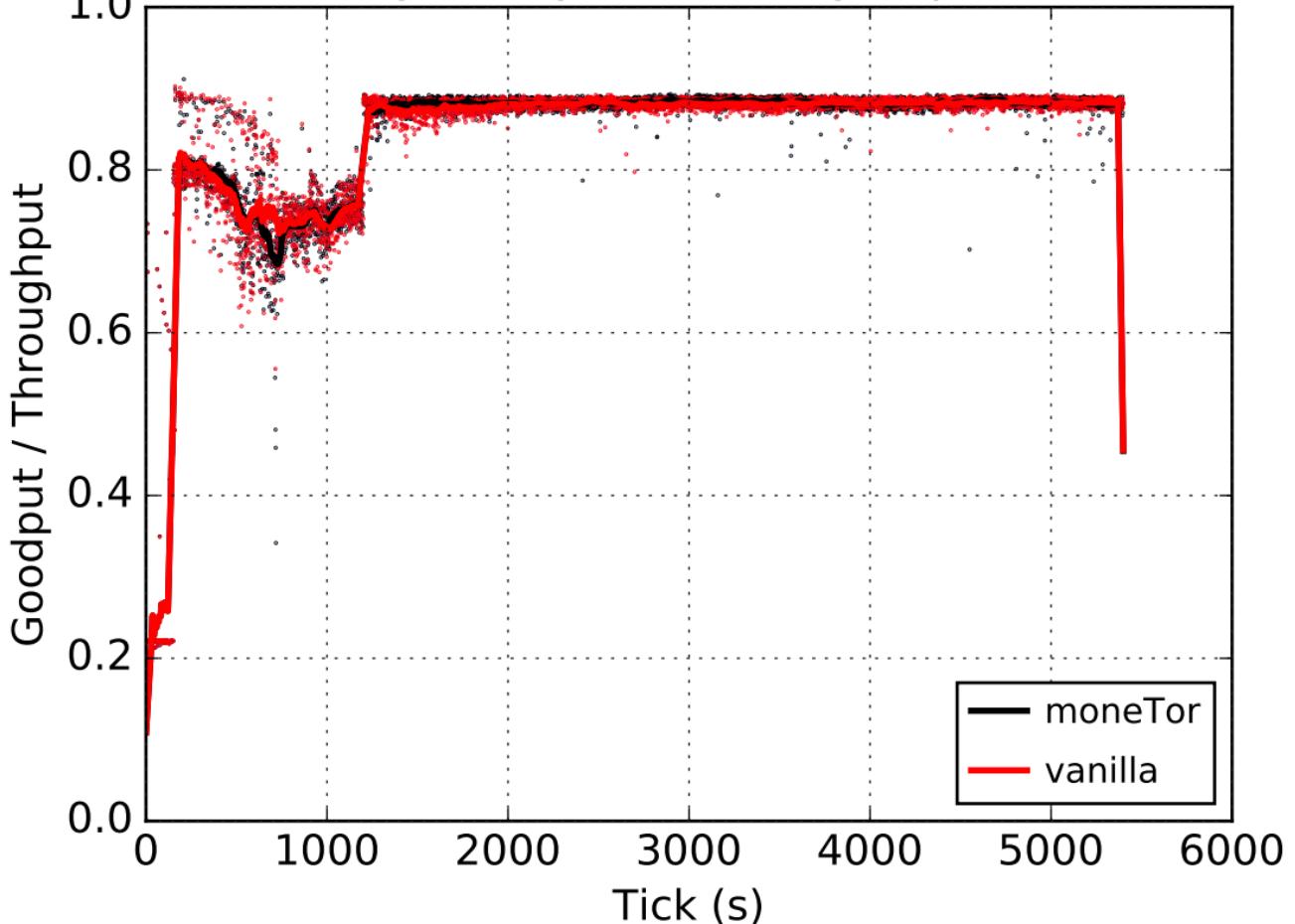
1.8

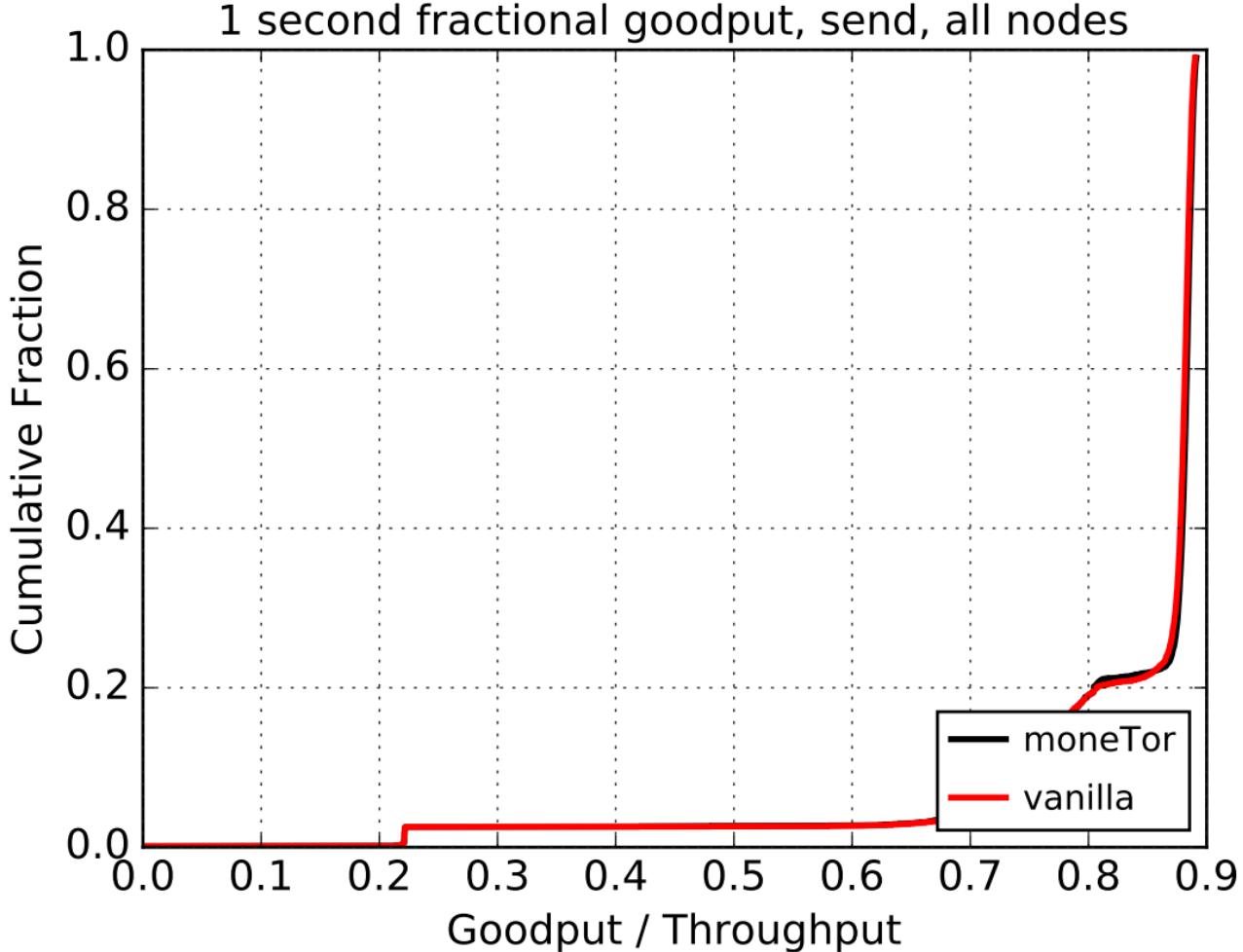
Goodput

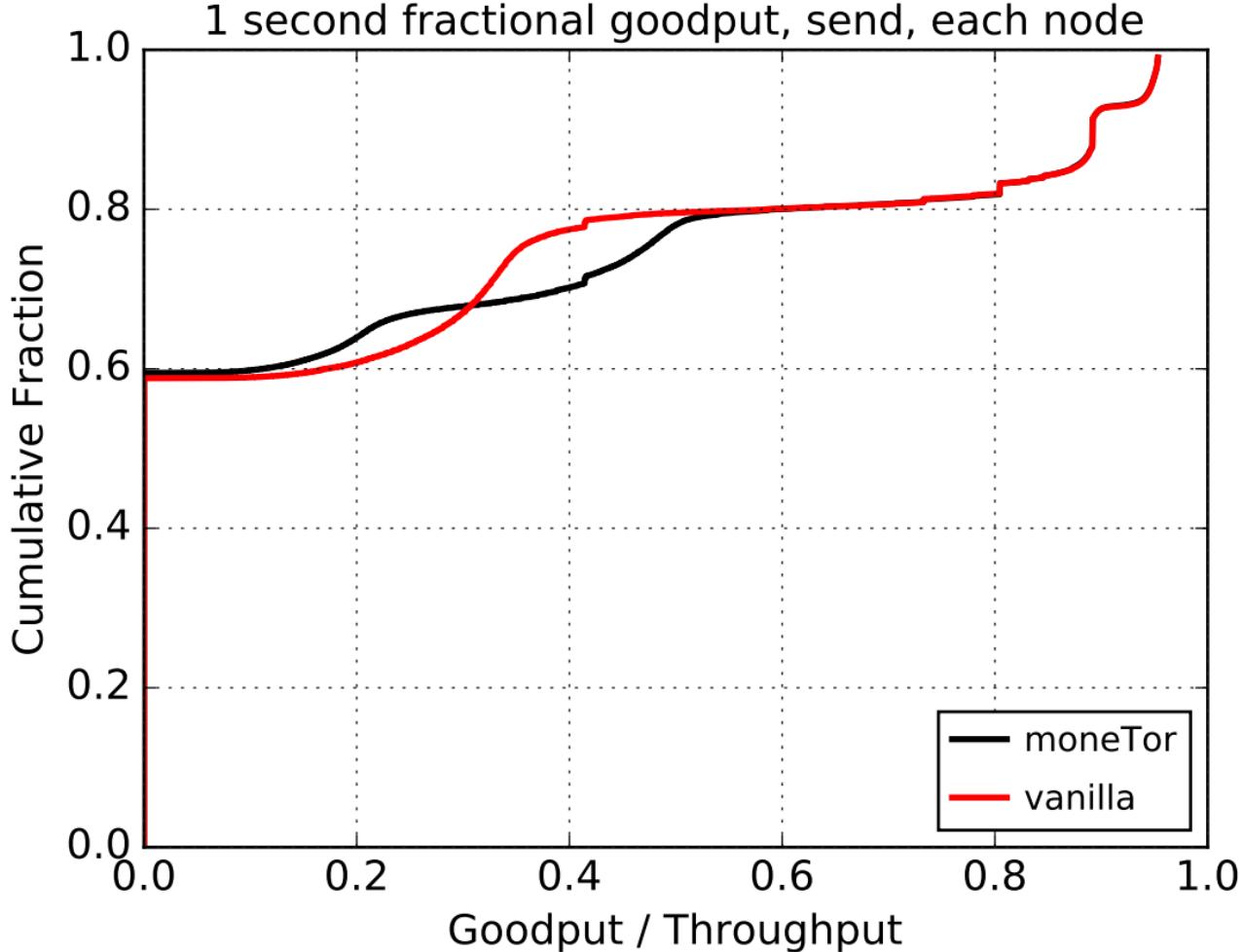
moneTor
vanilla



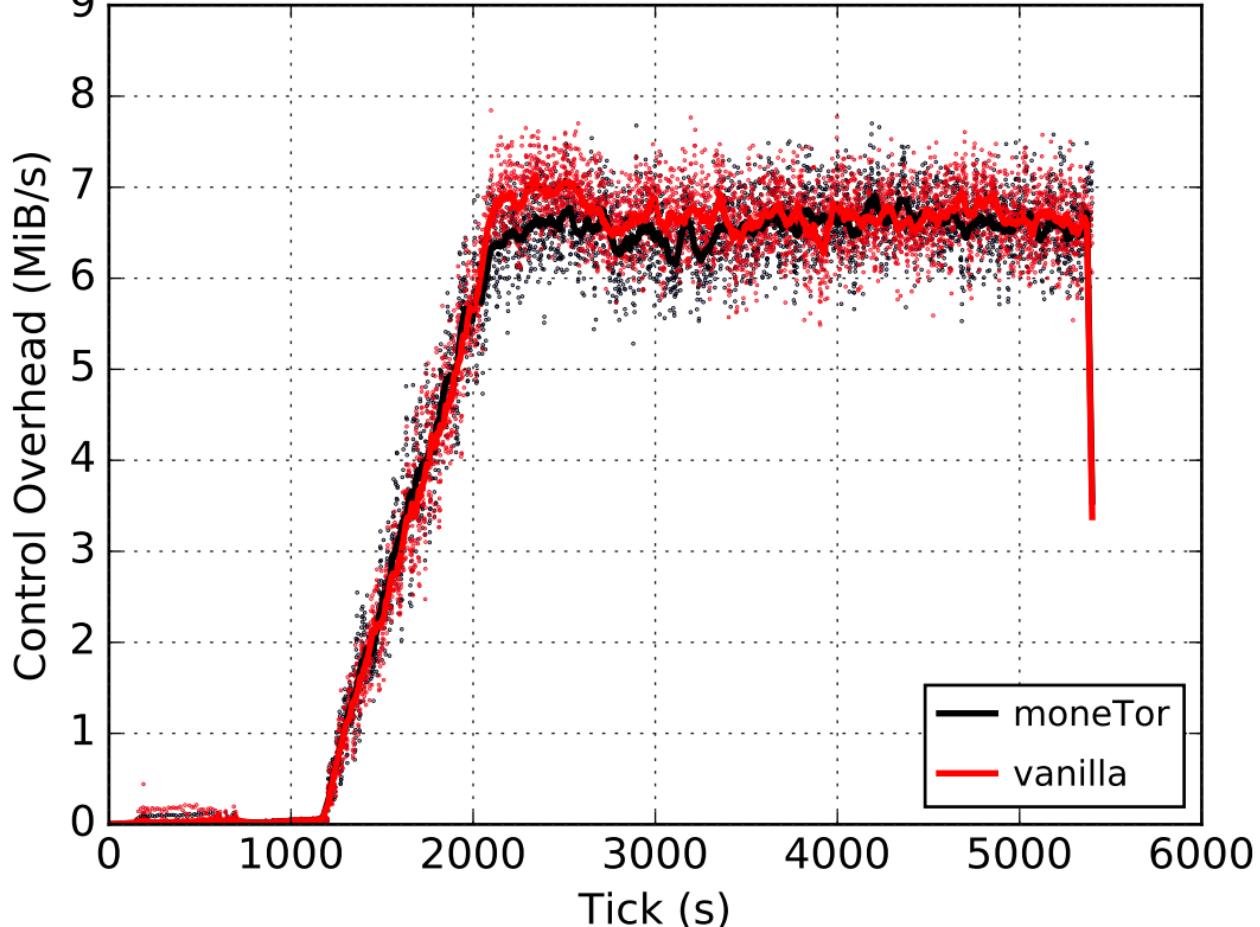
60 second moving average fractional goodput, send, all nodes







60 second moving average control overhead, send, all node



1 second control overhead, send, all nodes

Cumulative Fraction

1.0

0.8

0.6

0.4

0.2

0.0

0

1

2

3

4

5

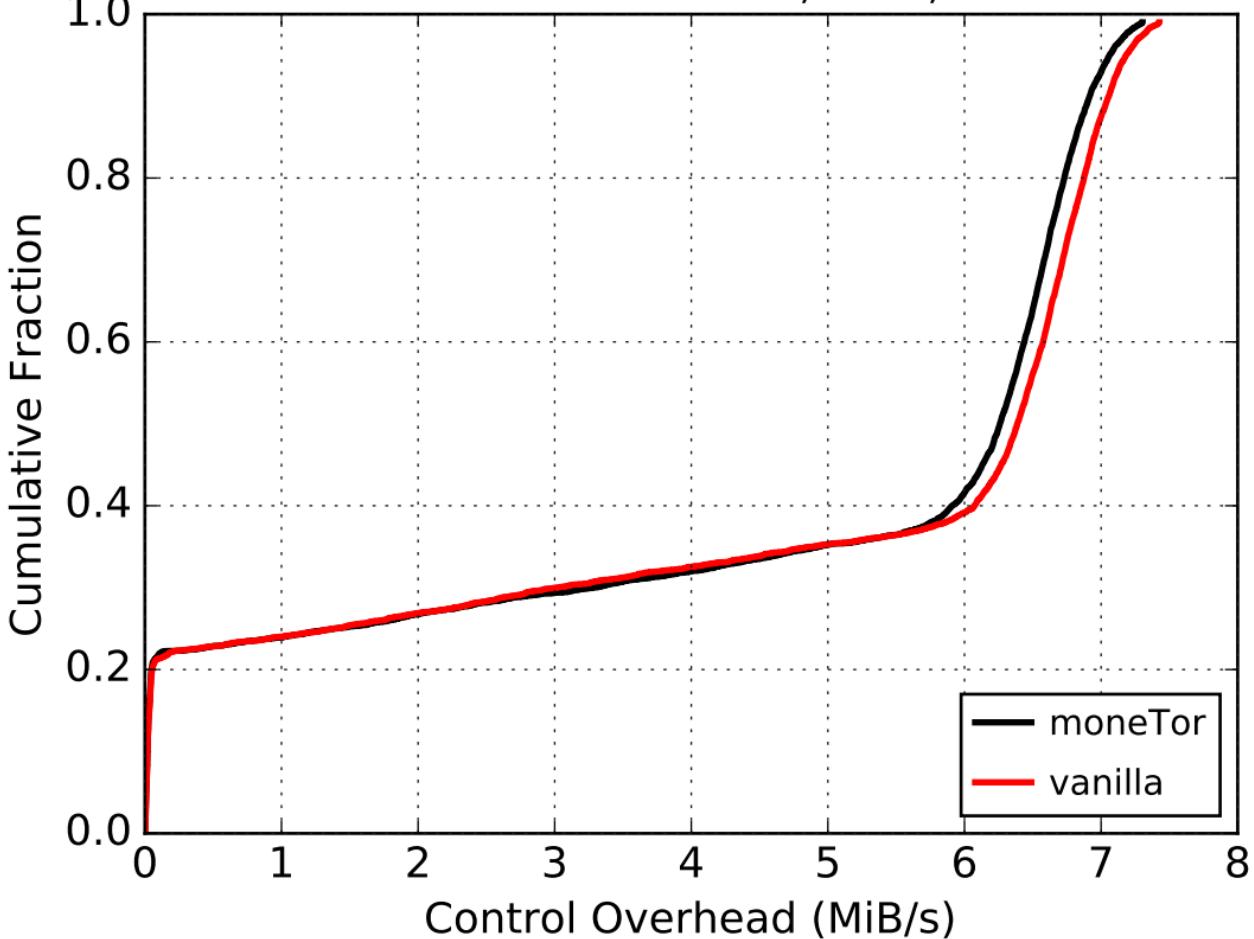
6

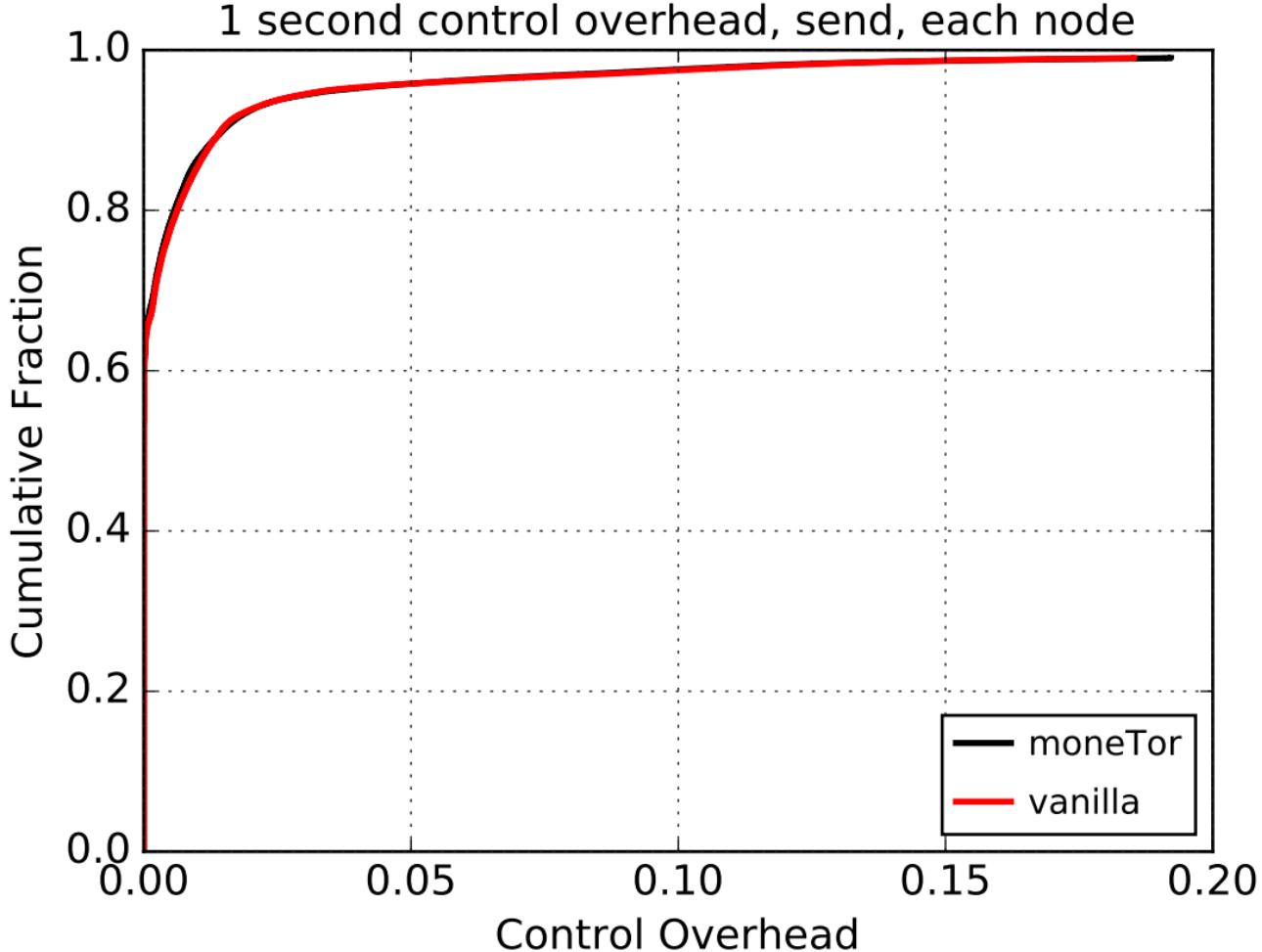
7

8

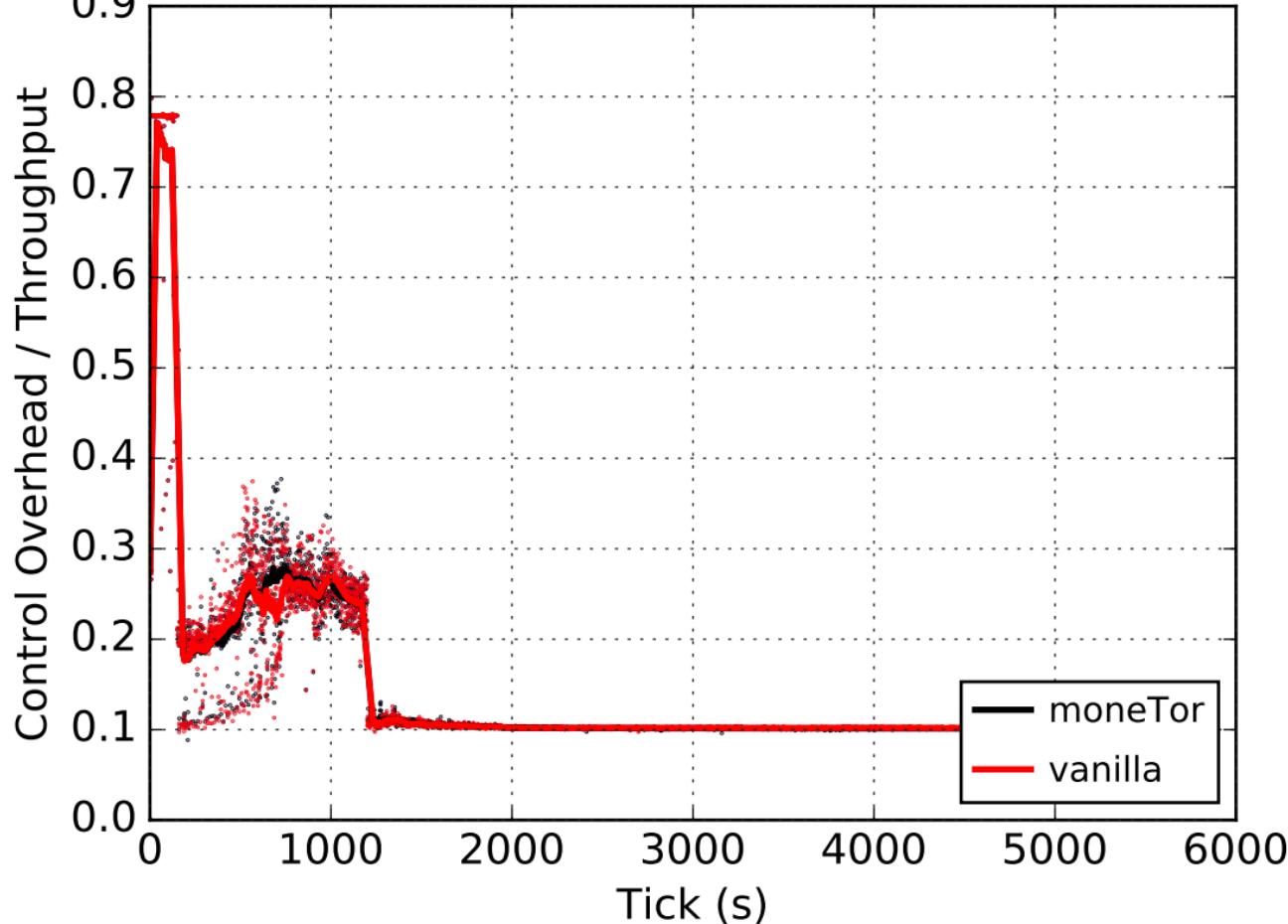
Control Overhead (MiB/s)

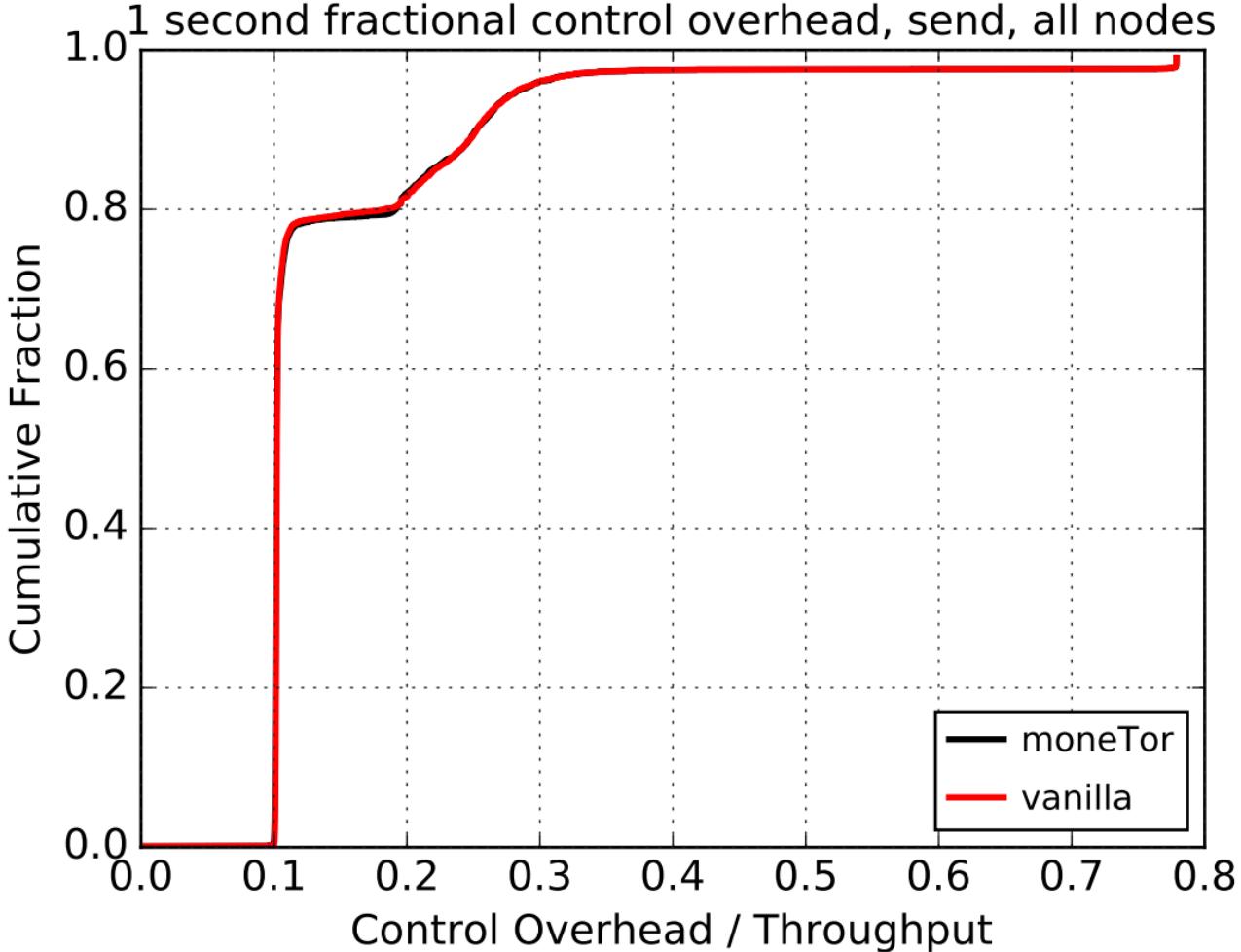
moneTor
vanilla

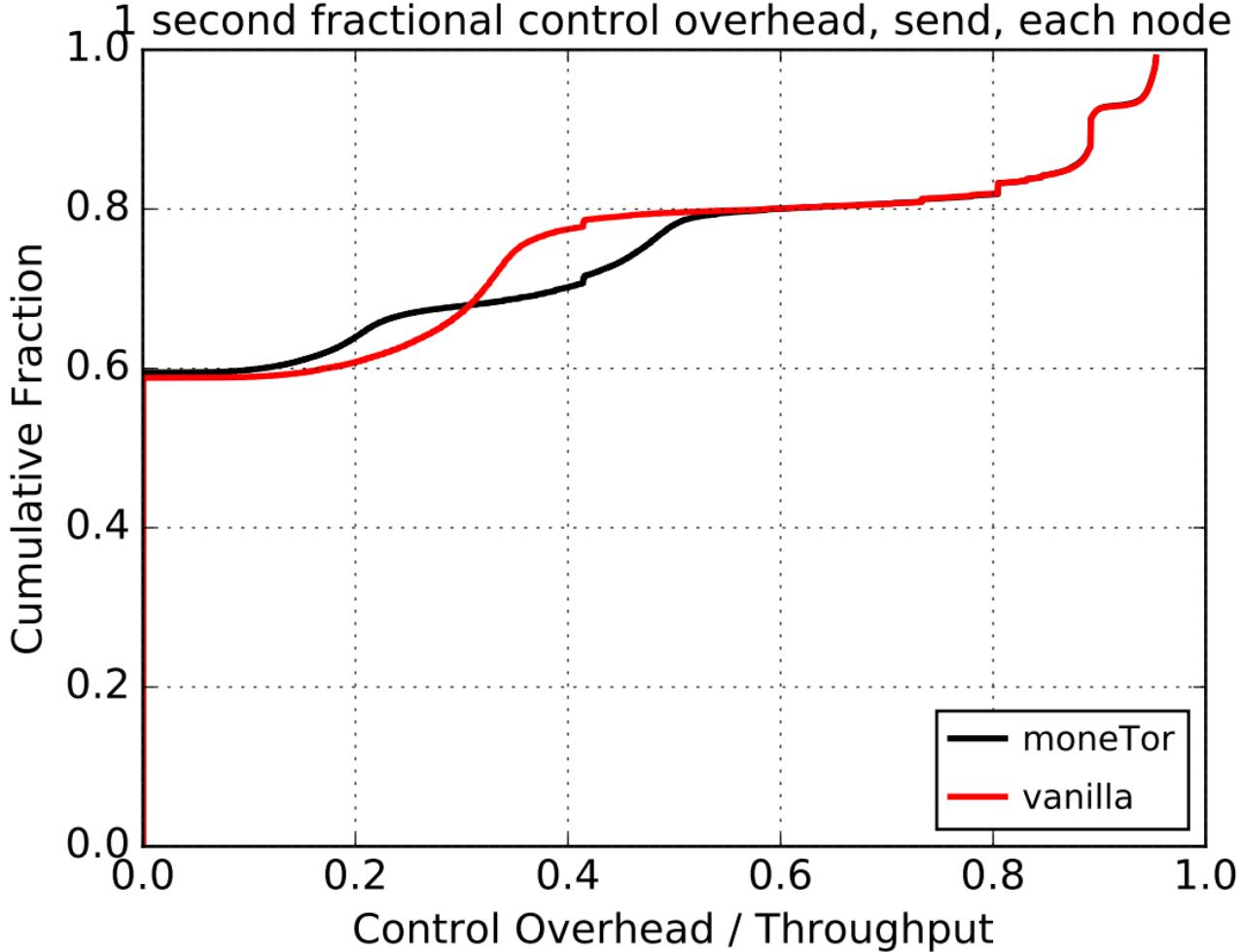


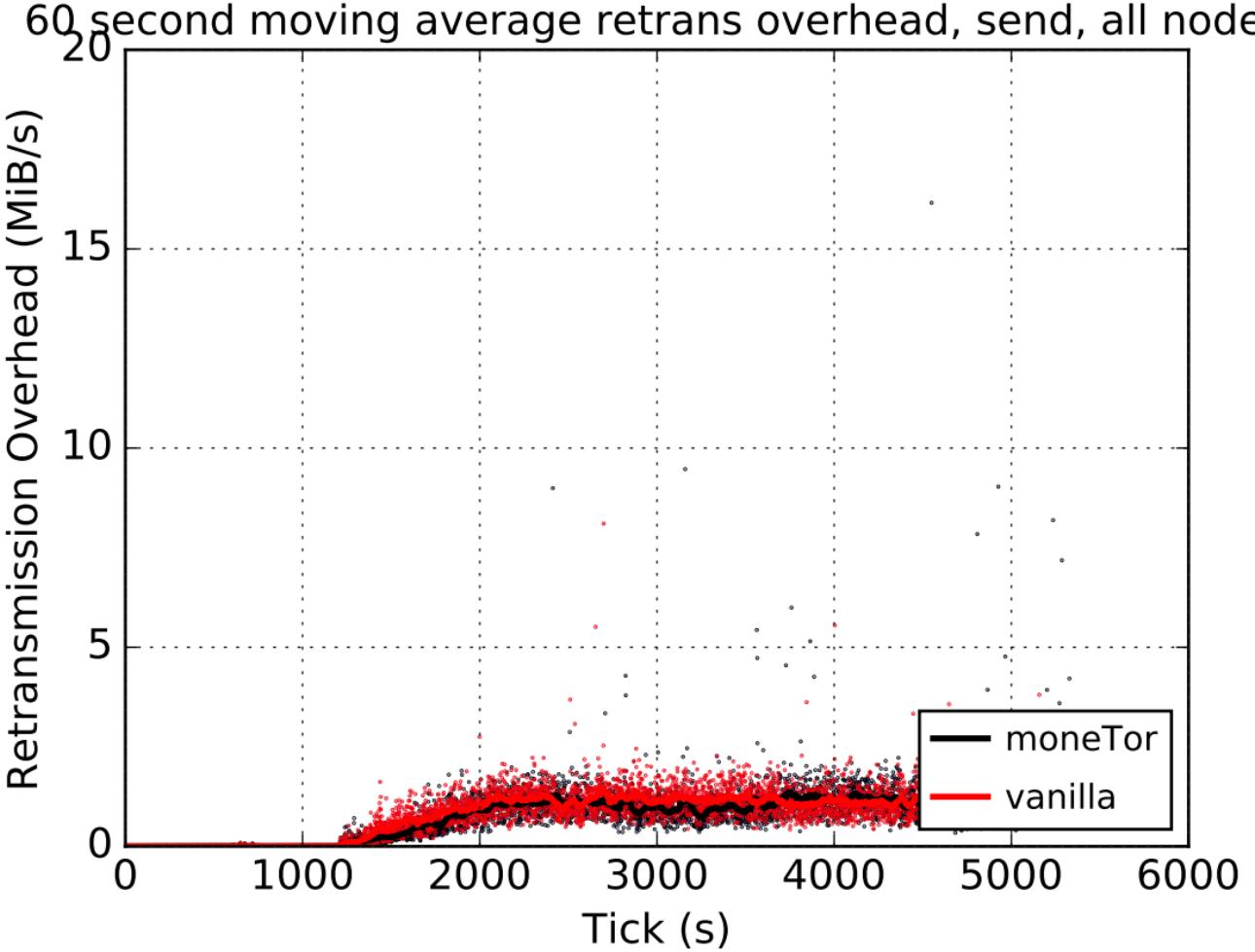


60 second moving average fractional control overhead, send, all



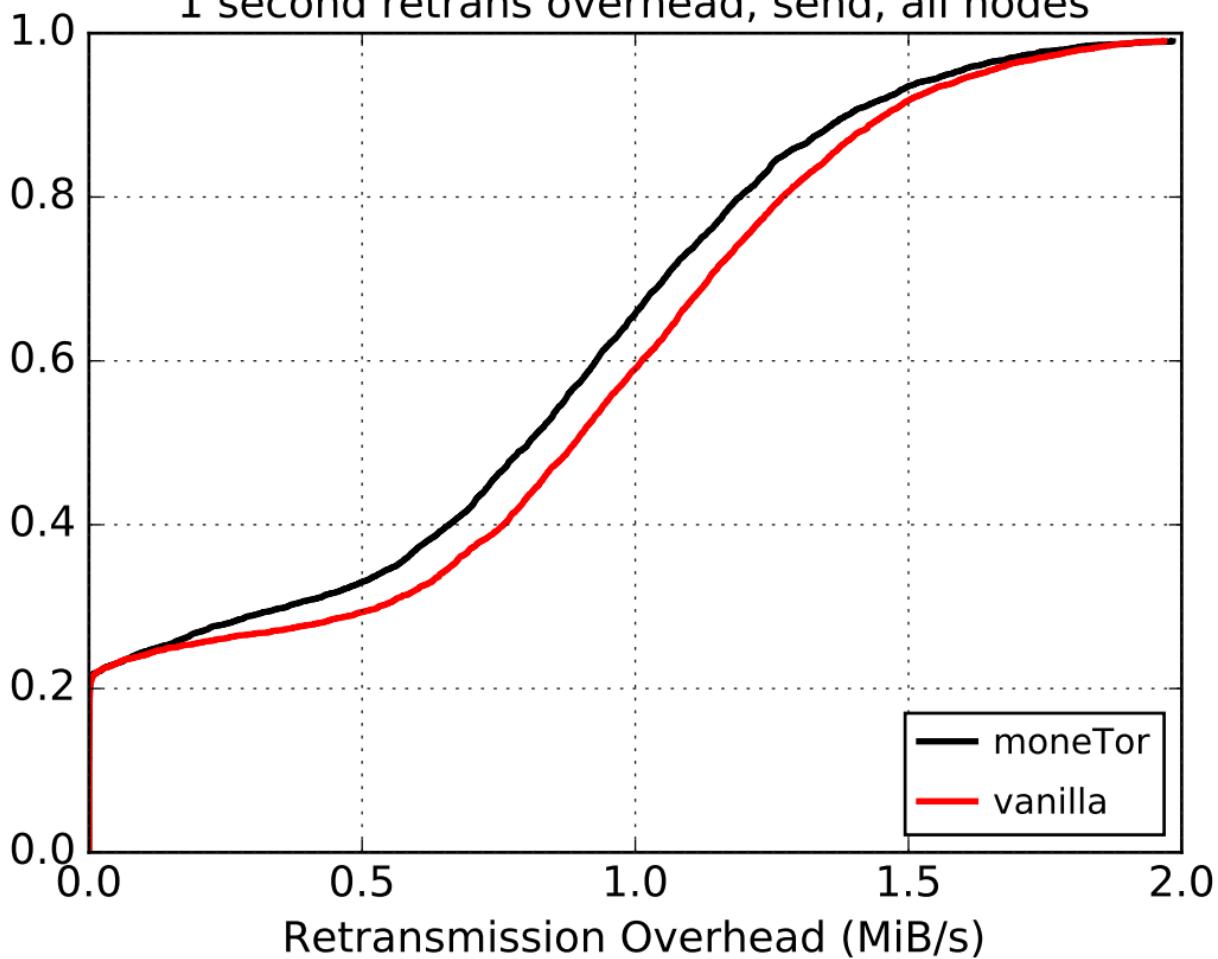


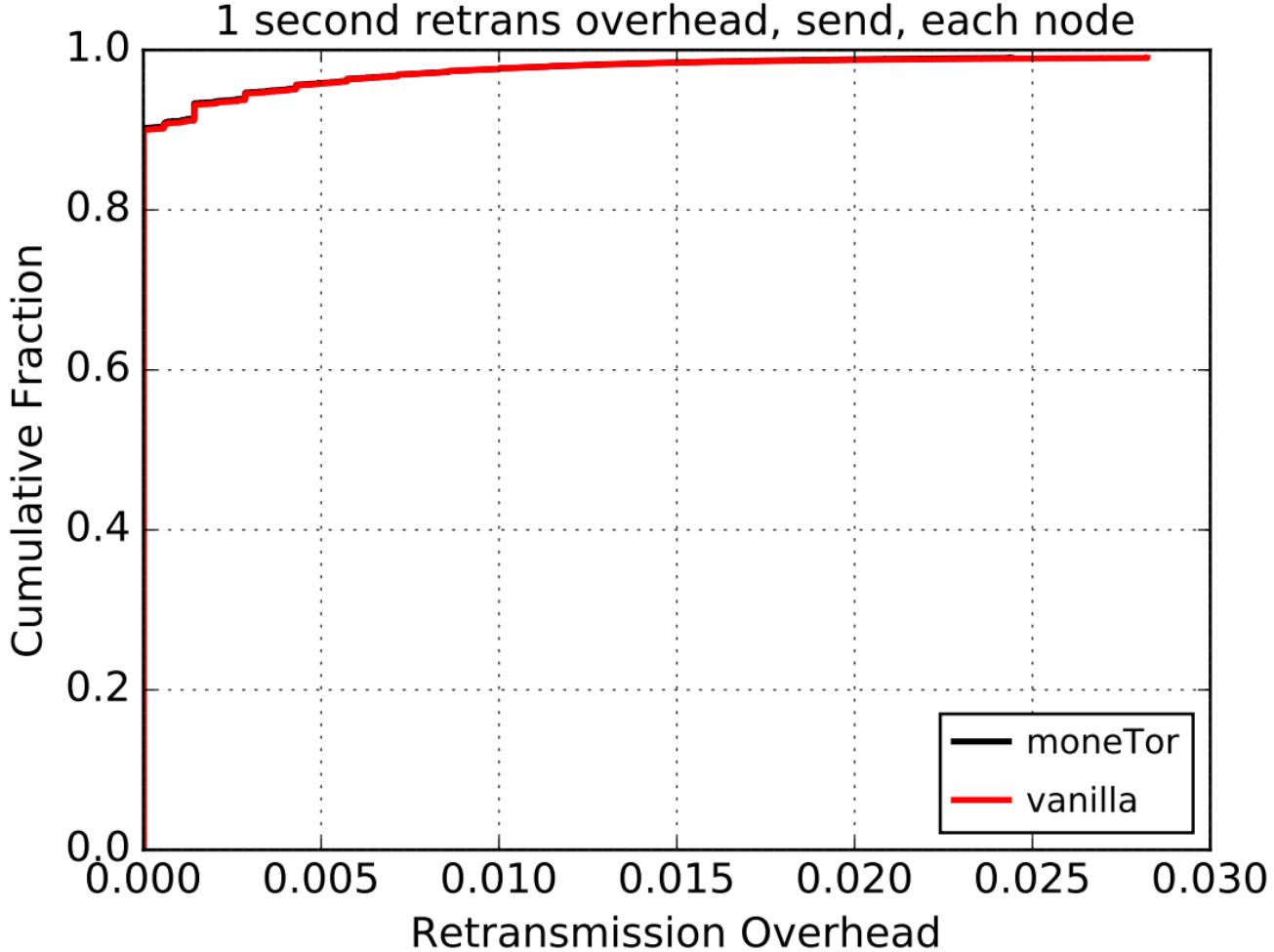


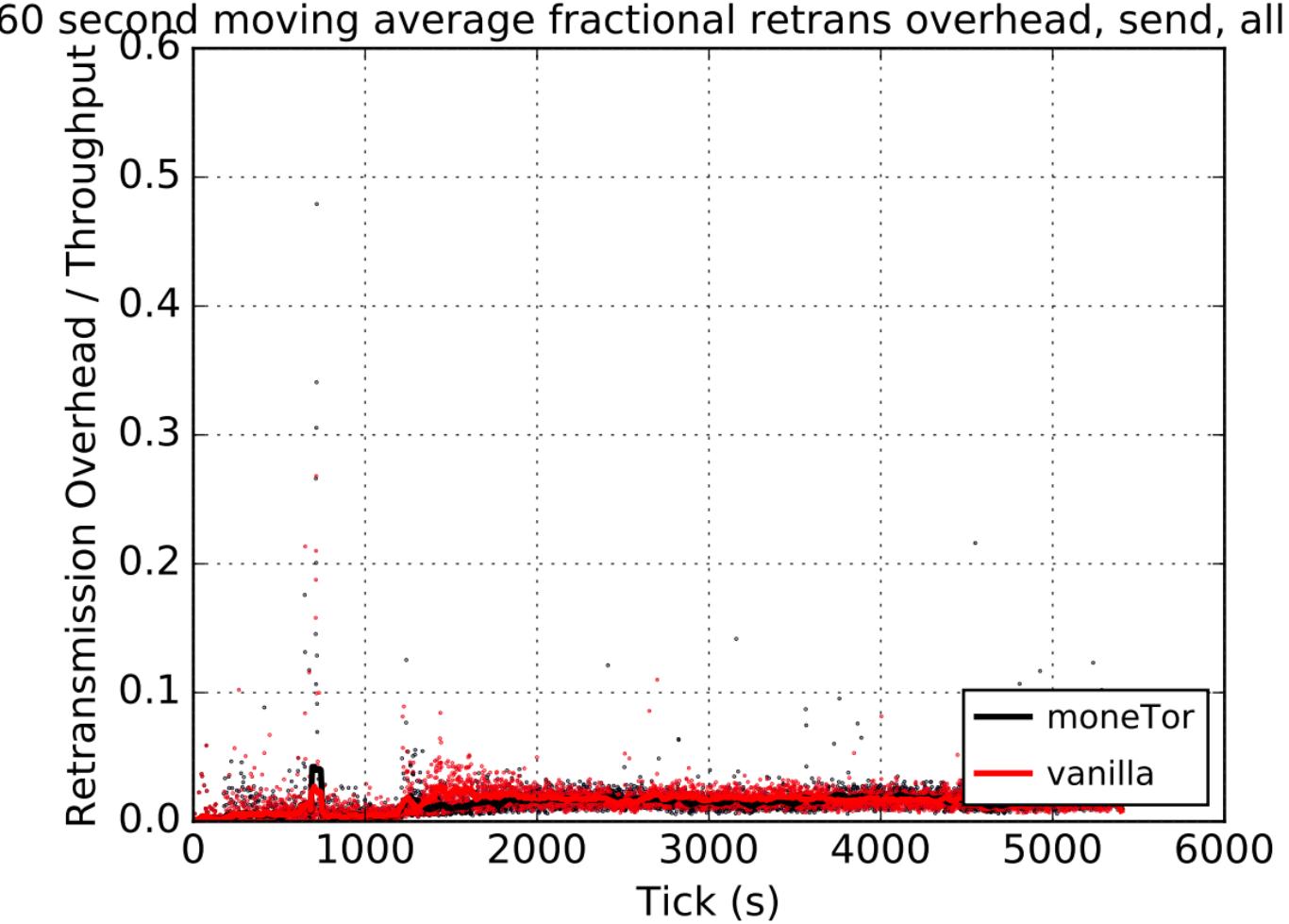


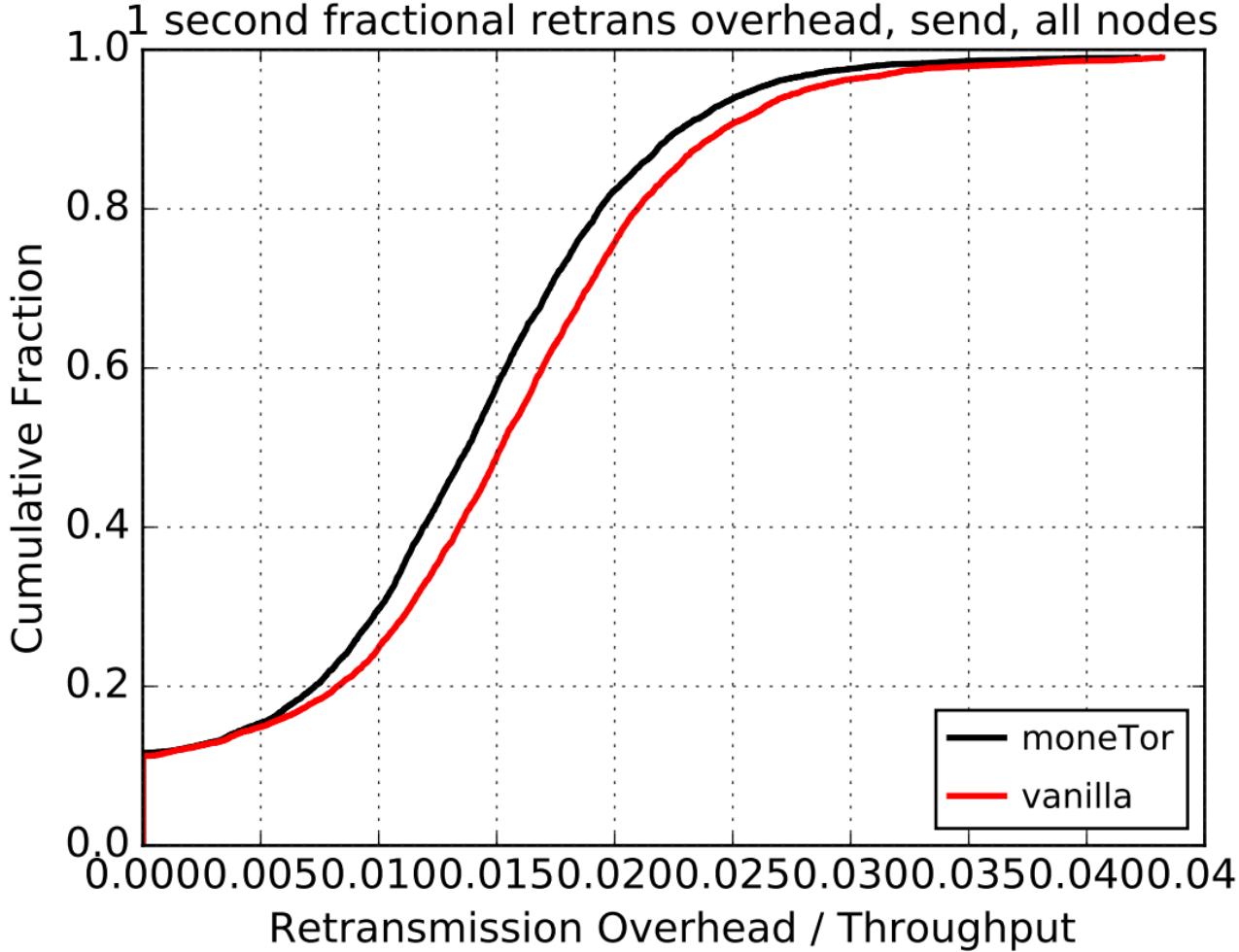
1 second retrans overhead, send, all nodes

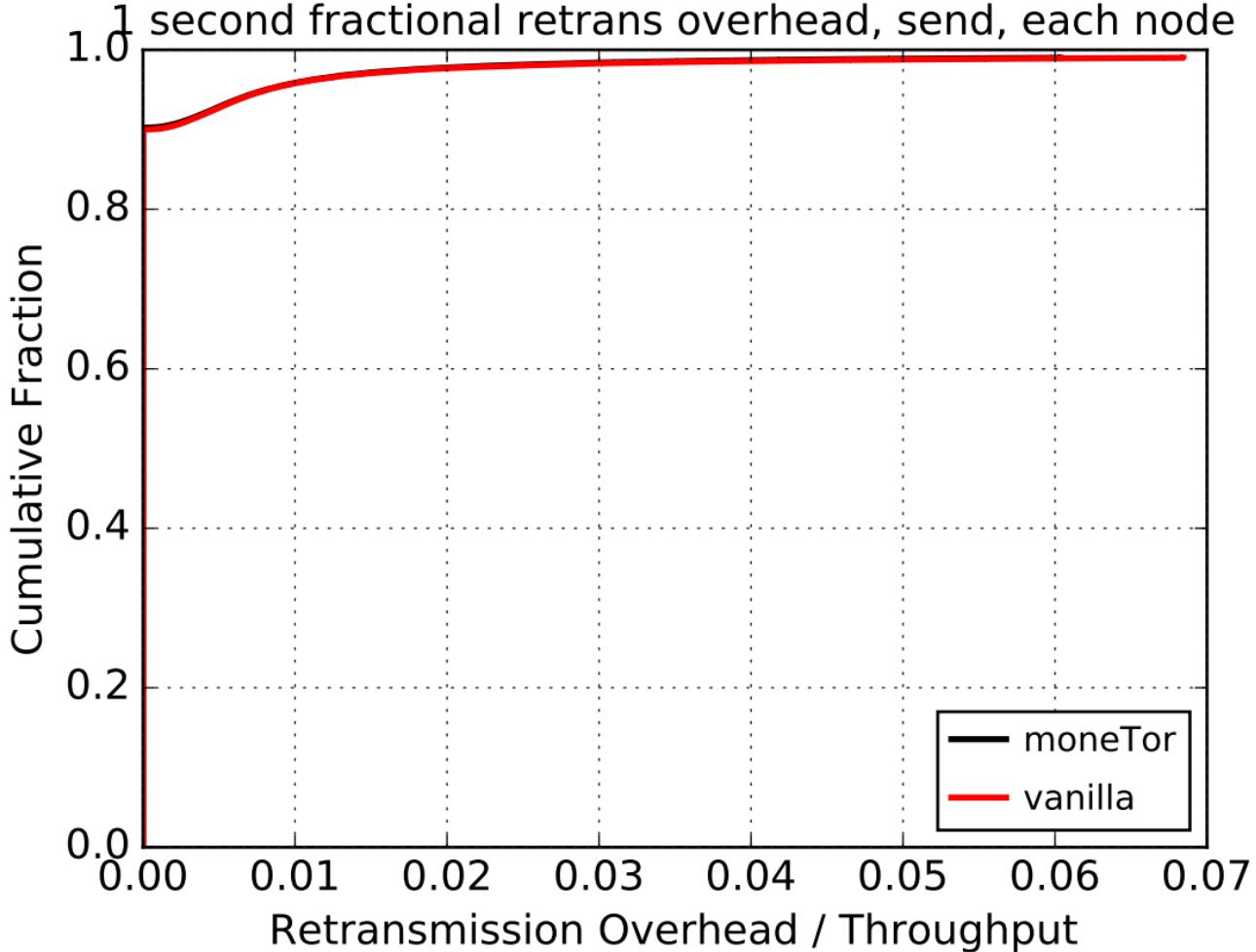
Cumulative Fraction



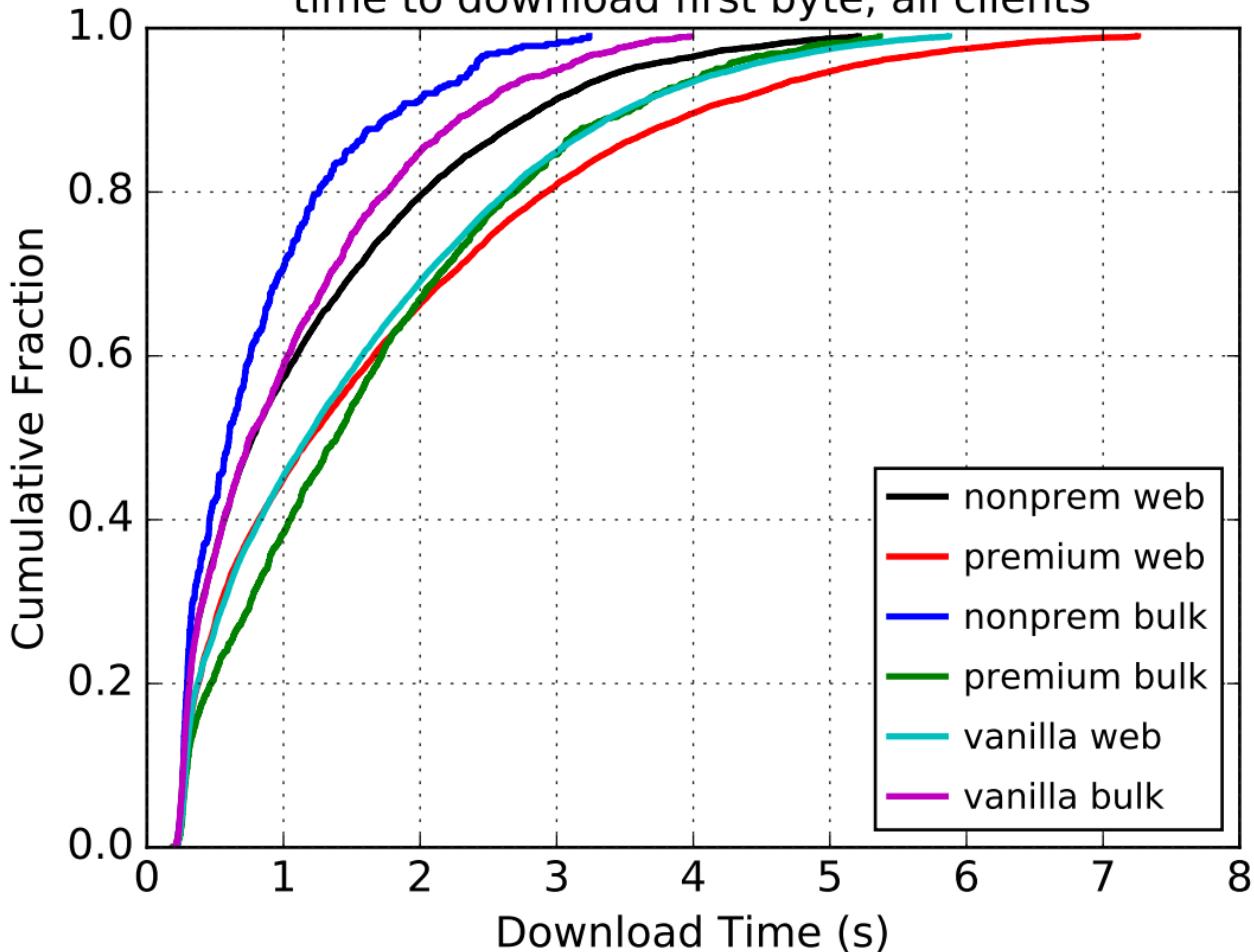


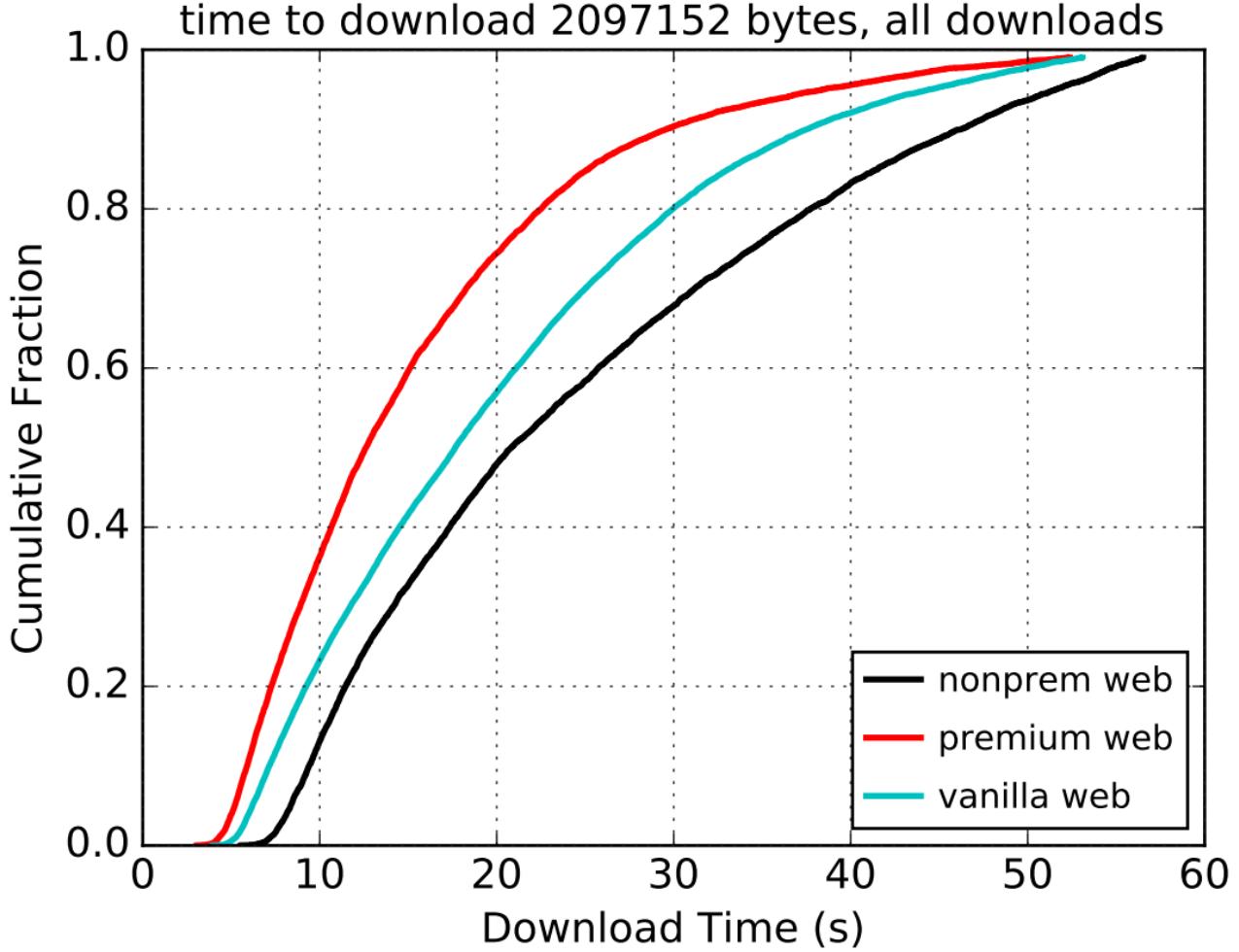


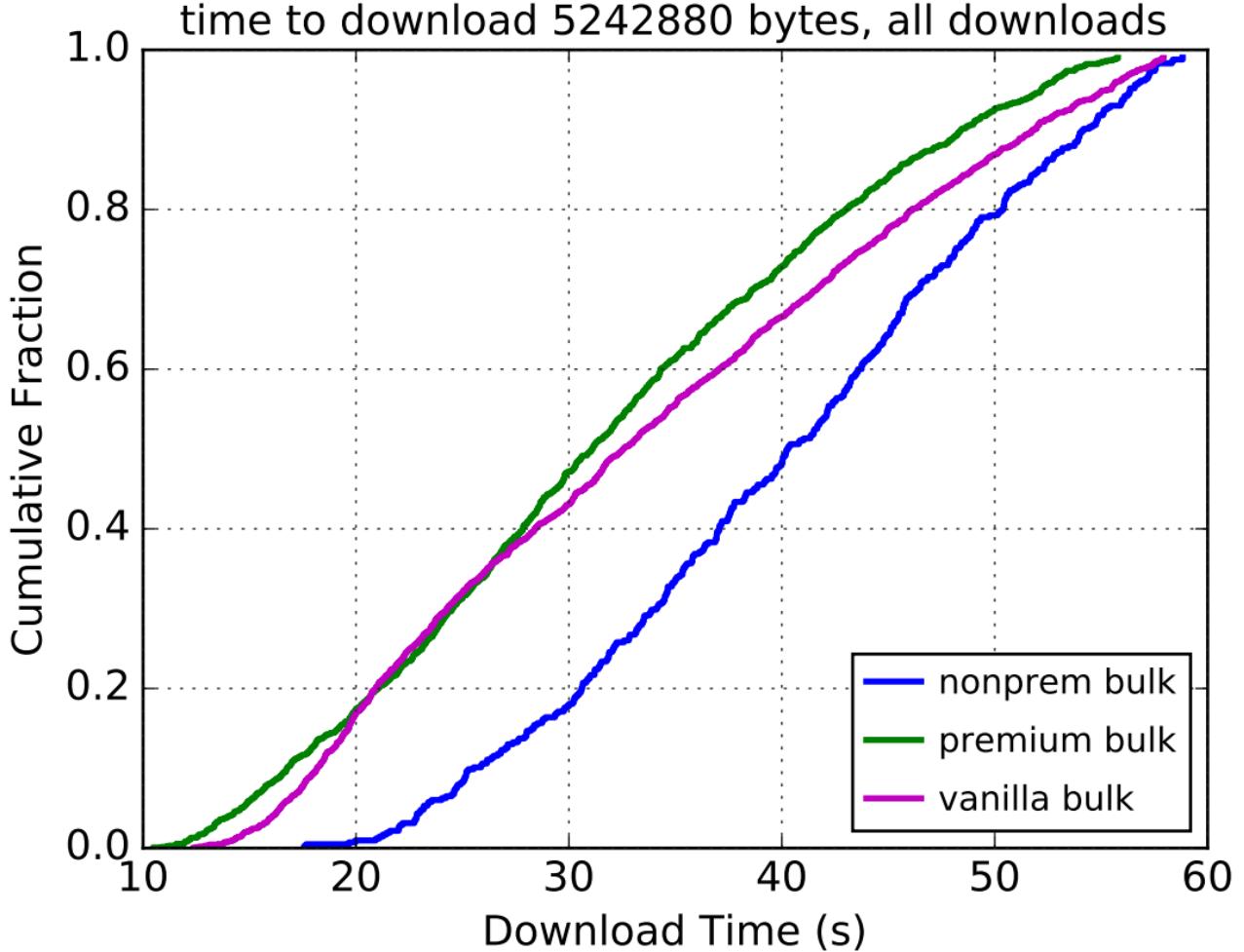


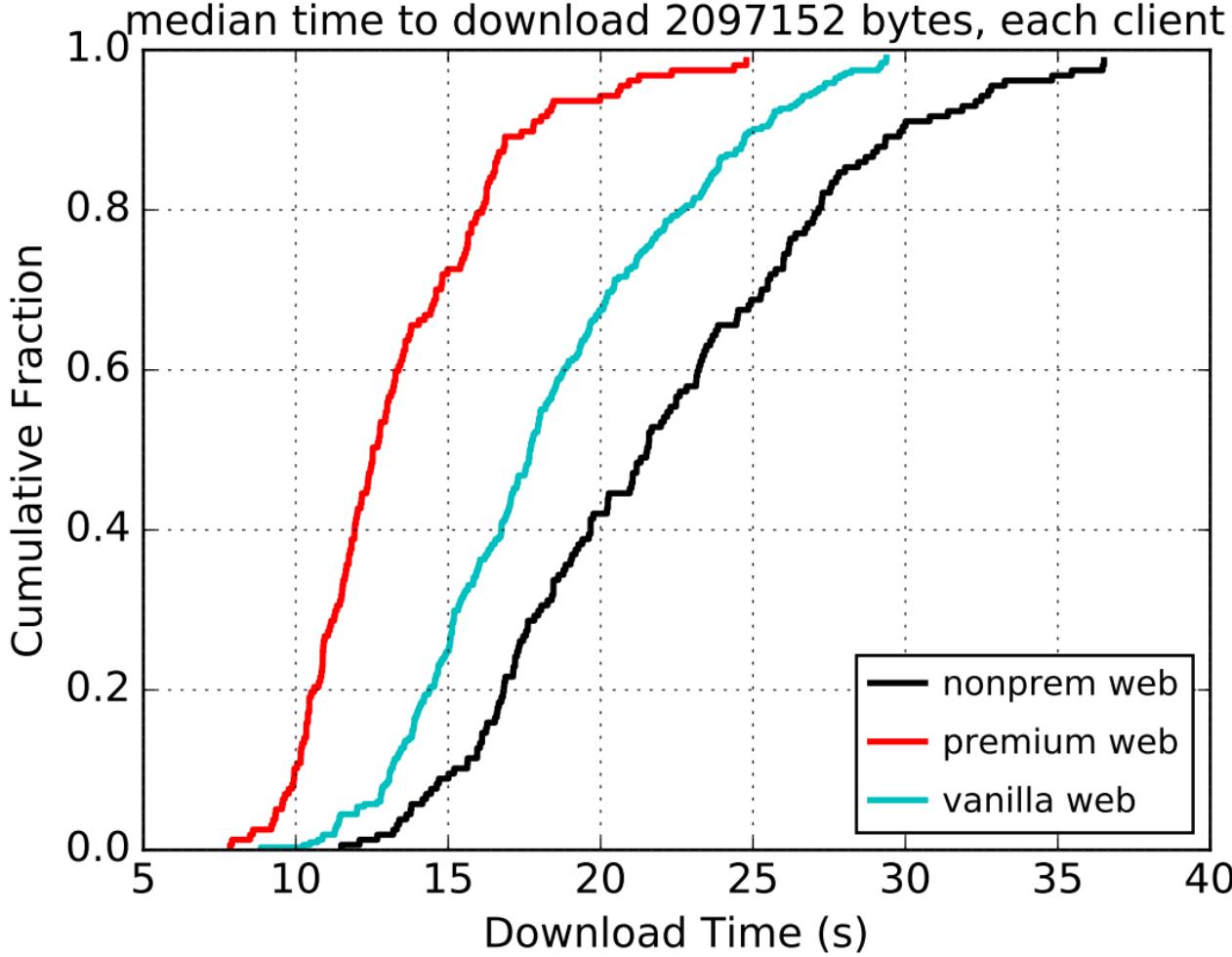


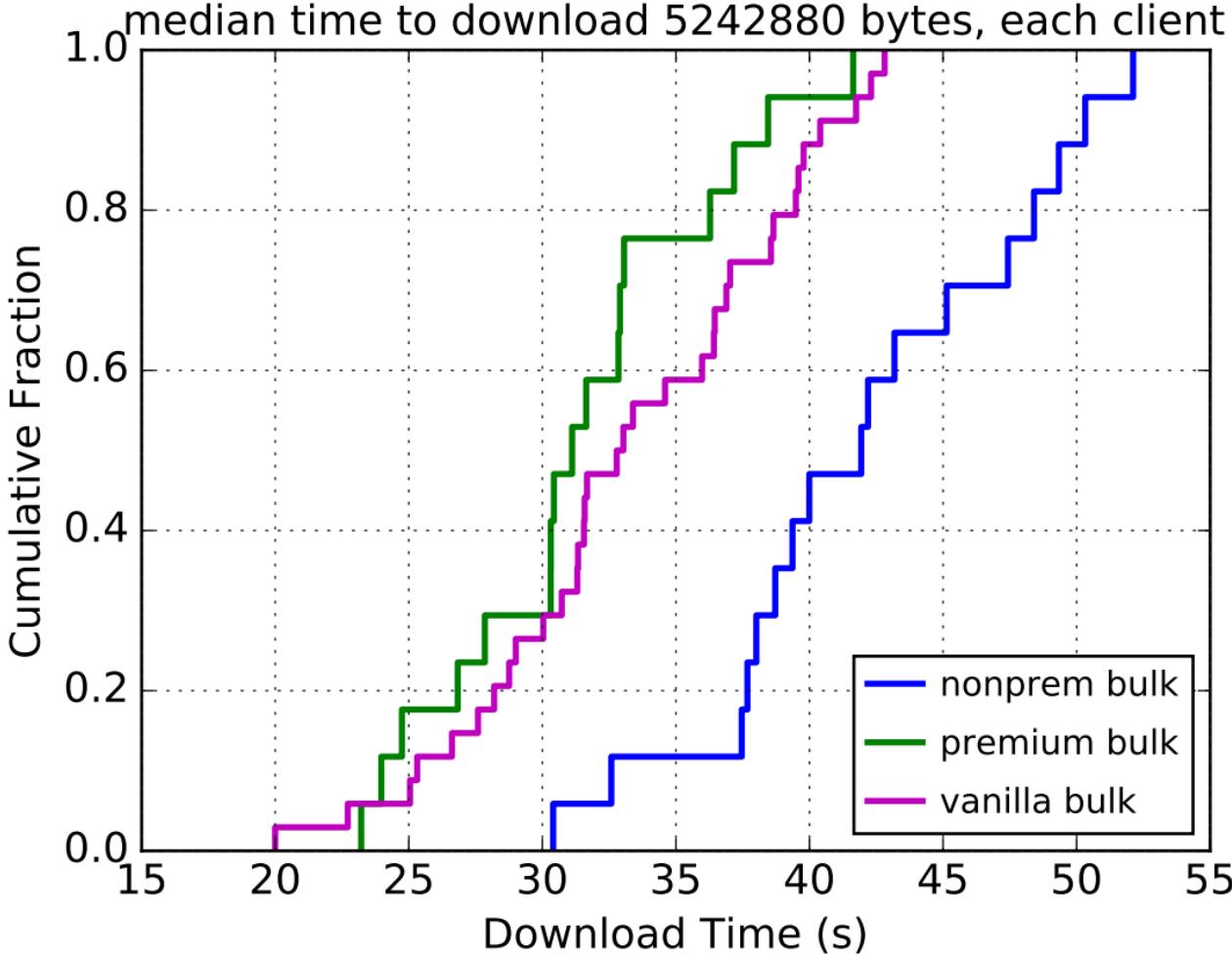
time to download first byte, all clients

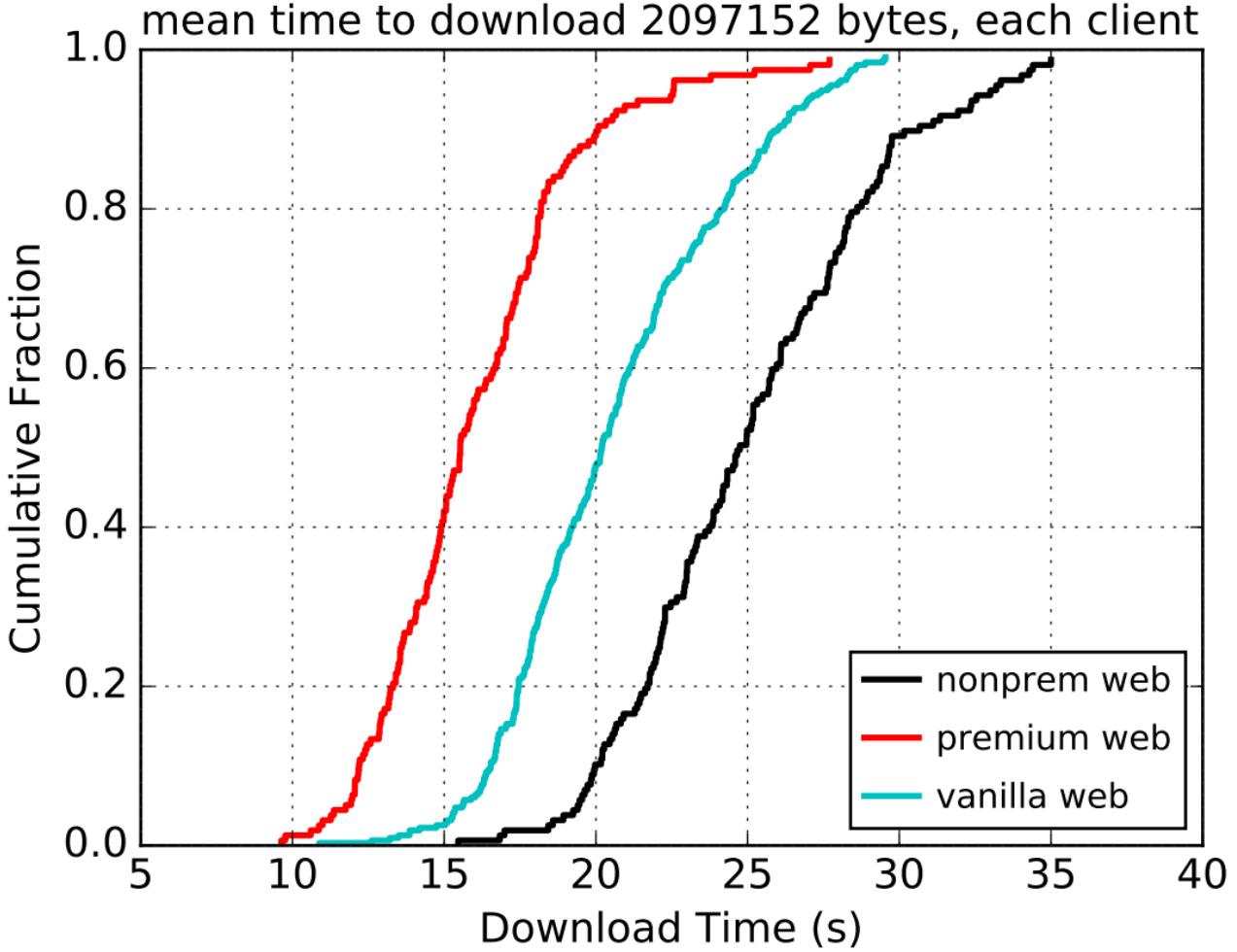


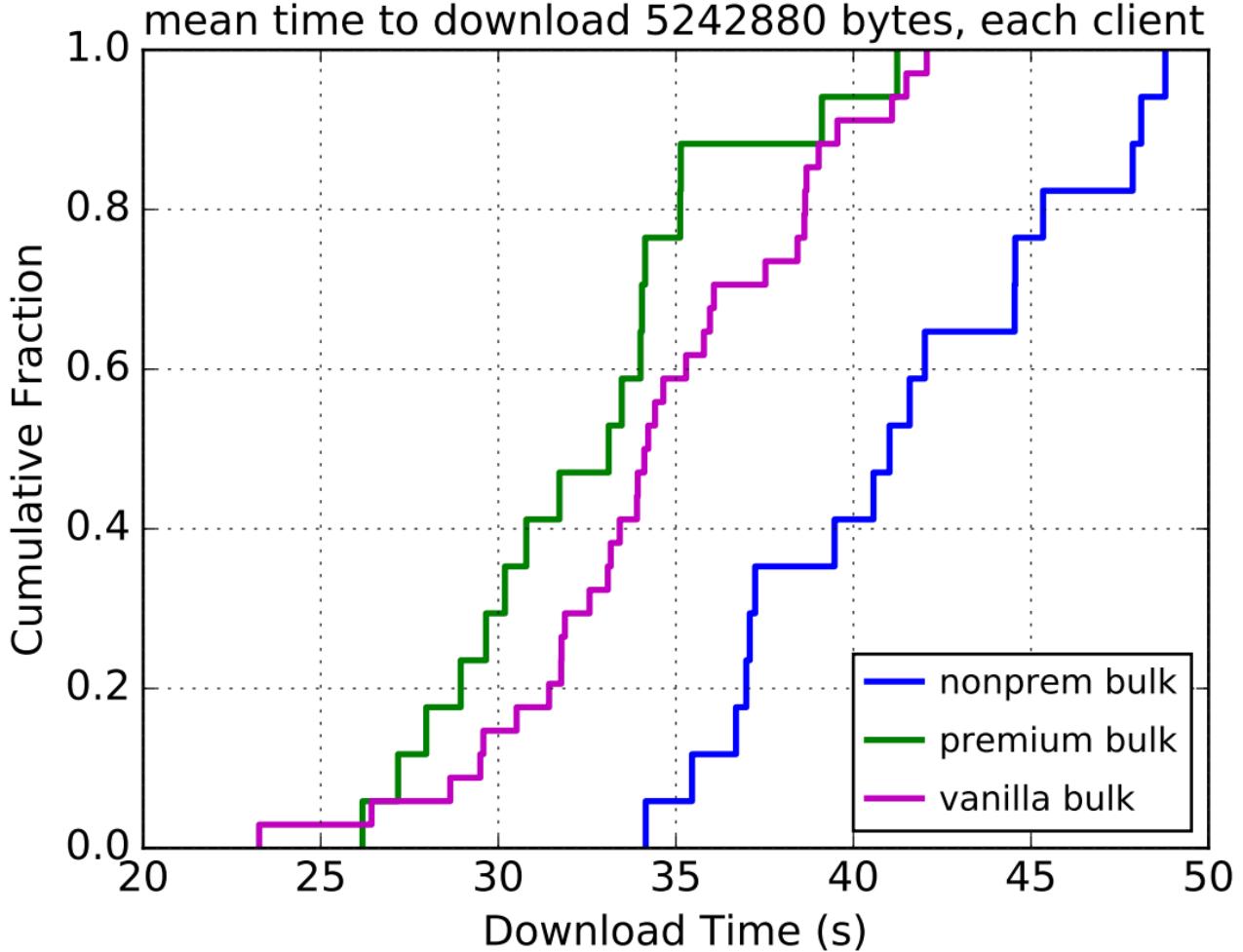












max time to download 2097152 bytes, each client

Cumulative Fraction

1.0

0.8

0.6

0.4

0.2

0.0

20

25

30

35

40

45

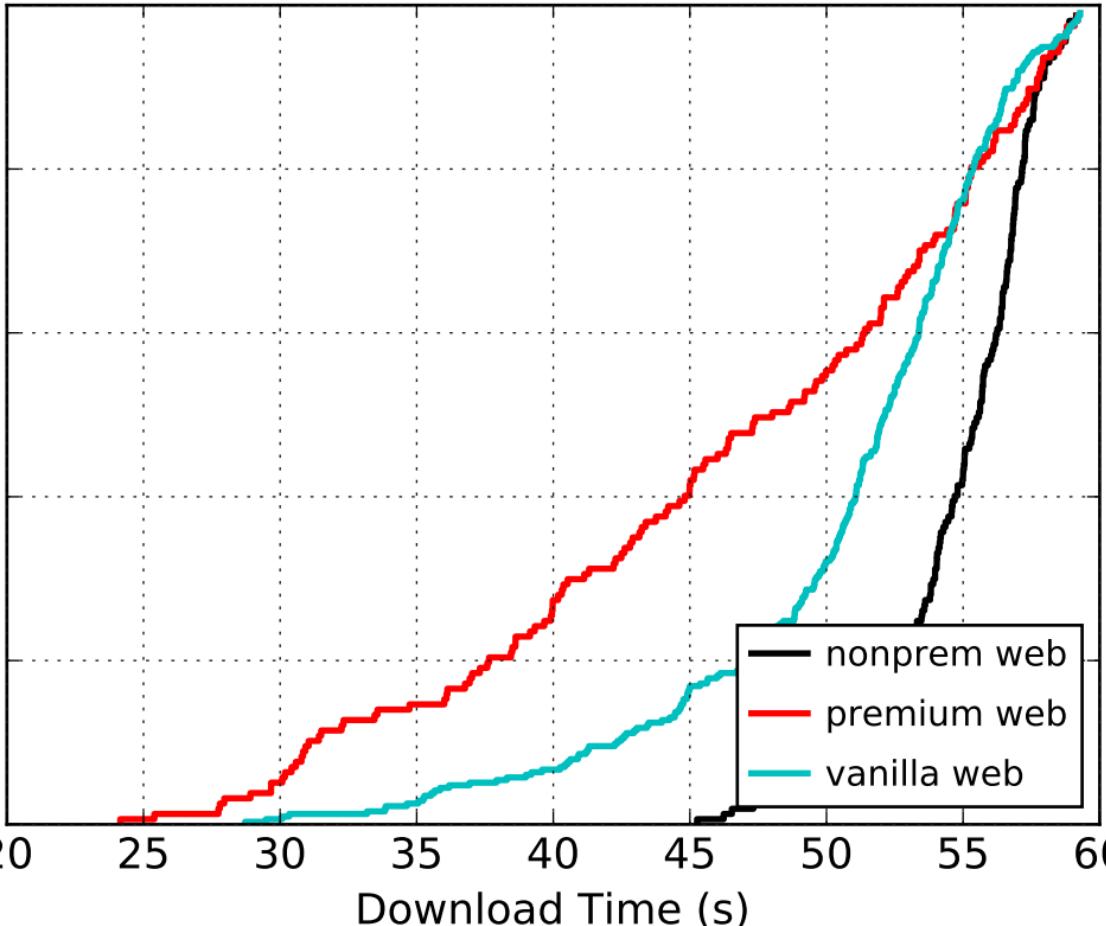
50

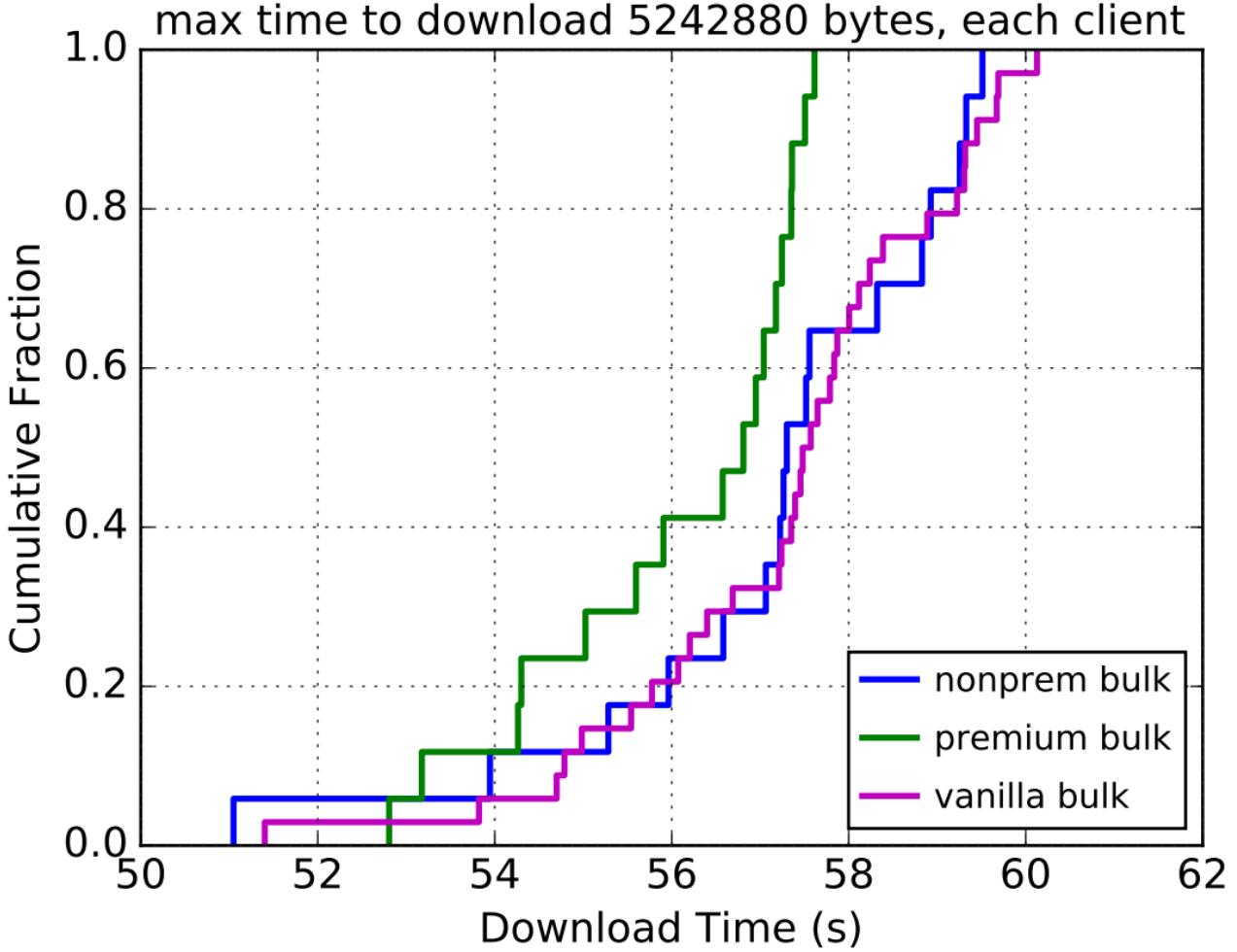
55

60

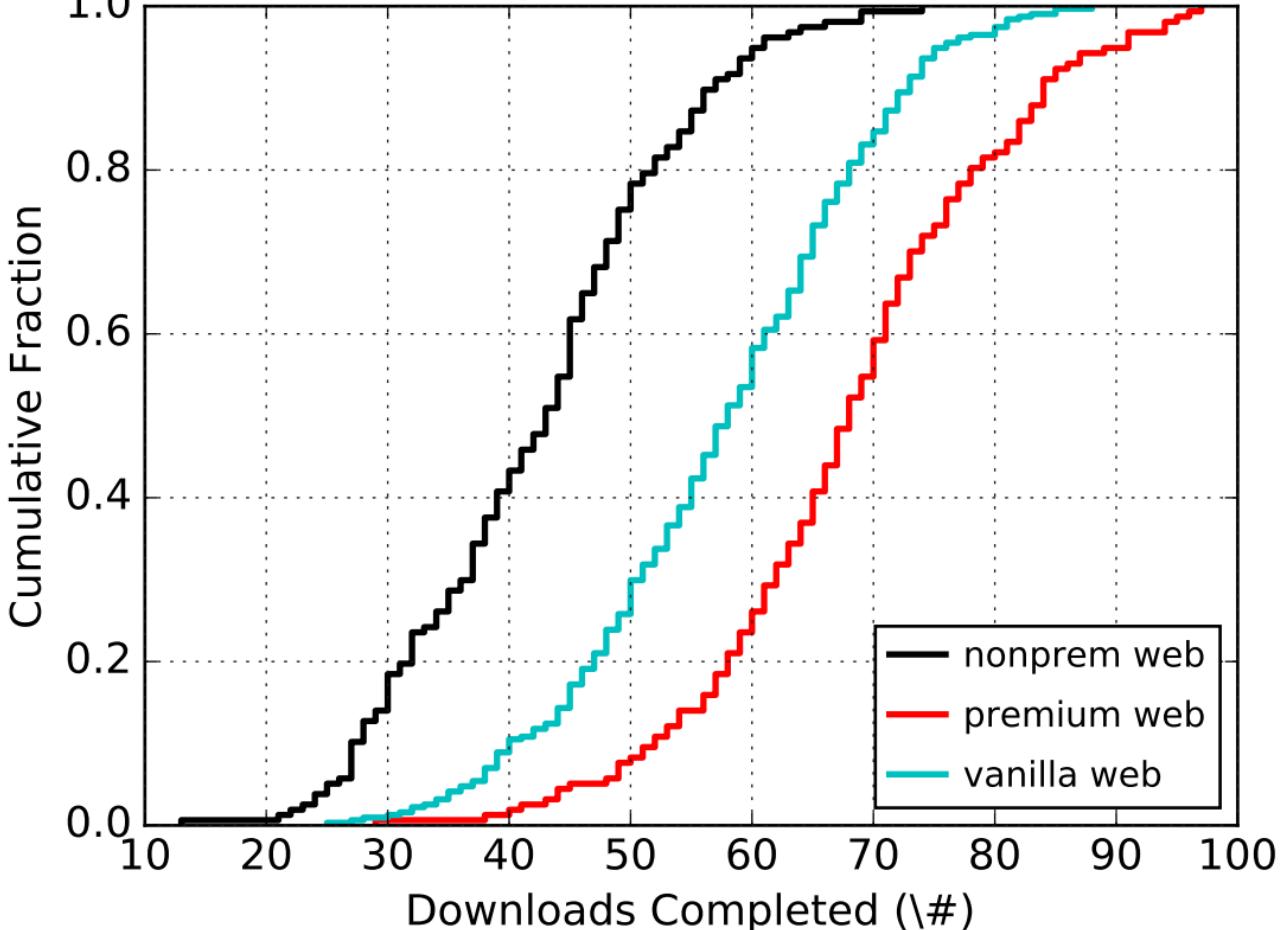
Download Time (s)

- nonprem web
- premium web
- vanilla web

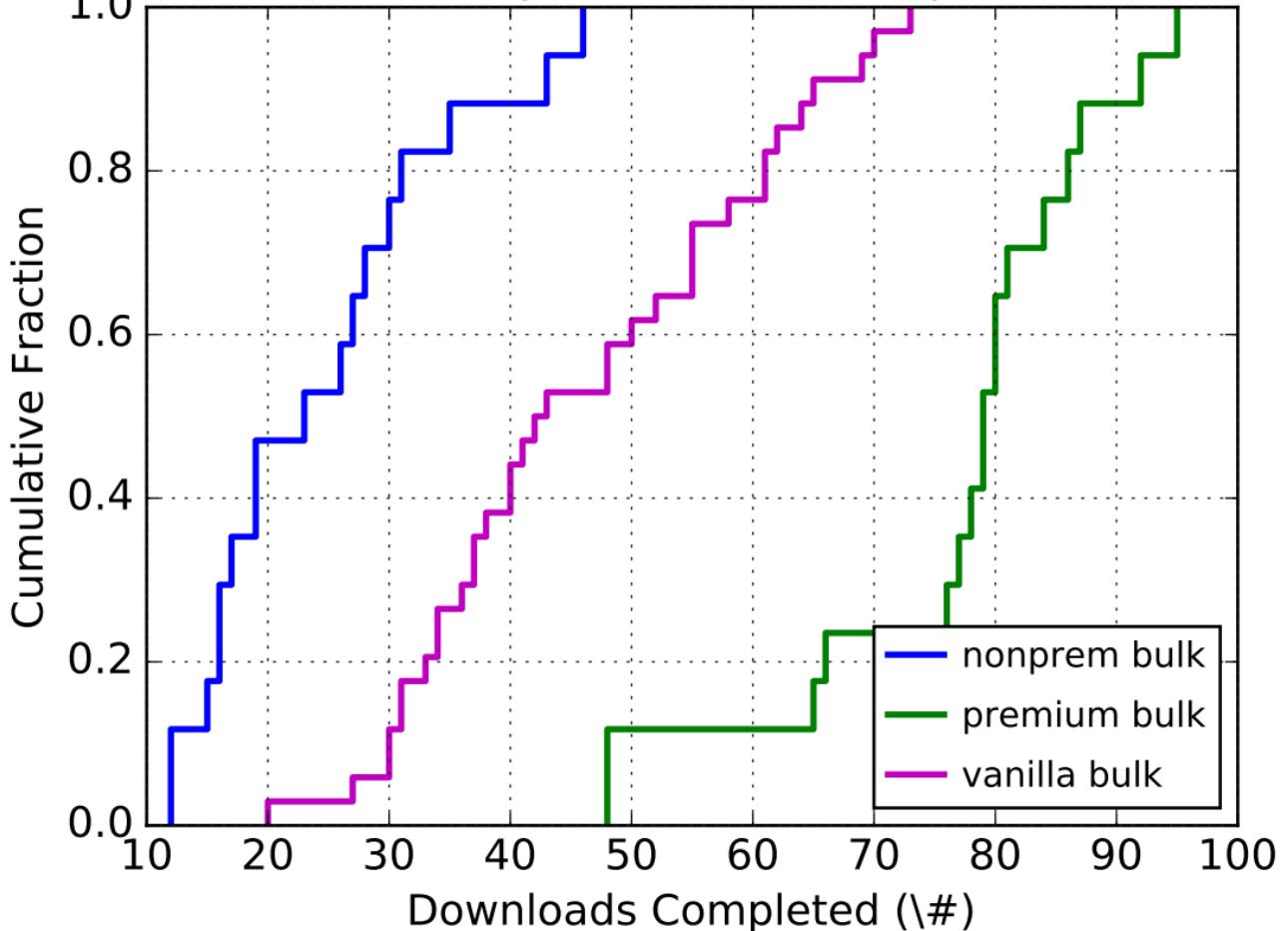




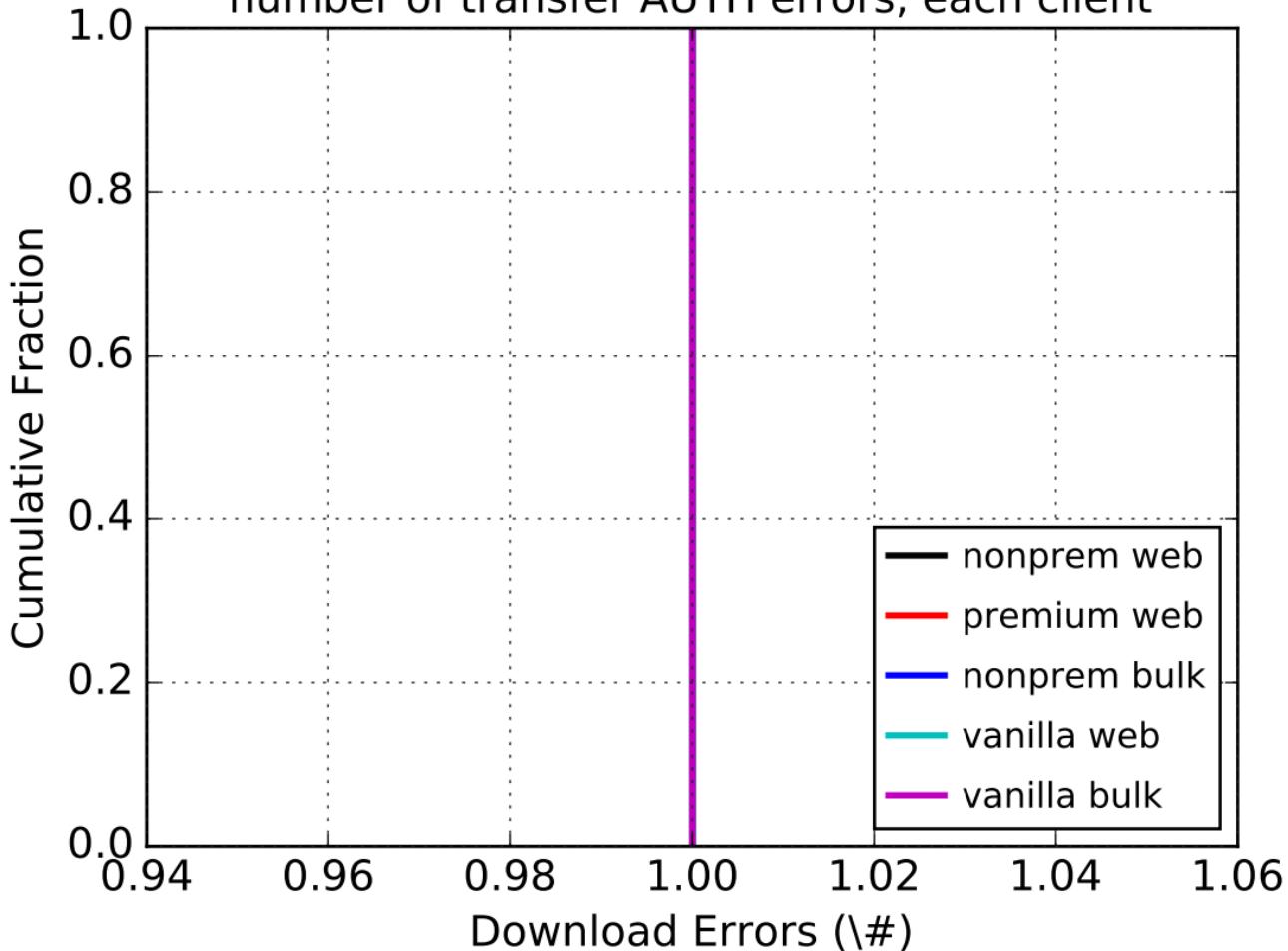
number of 2097152 byte downloads completed, each client



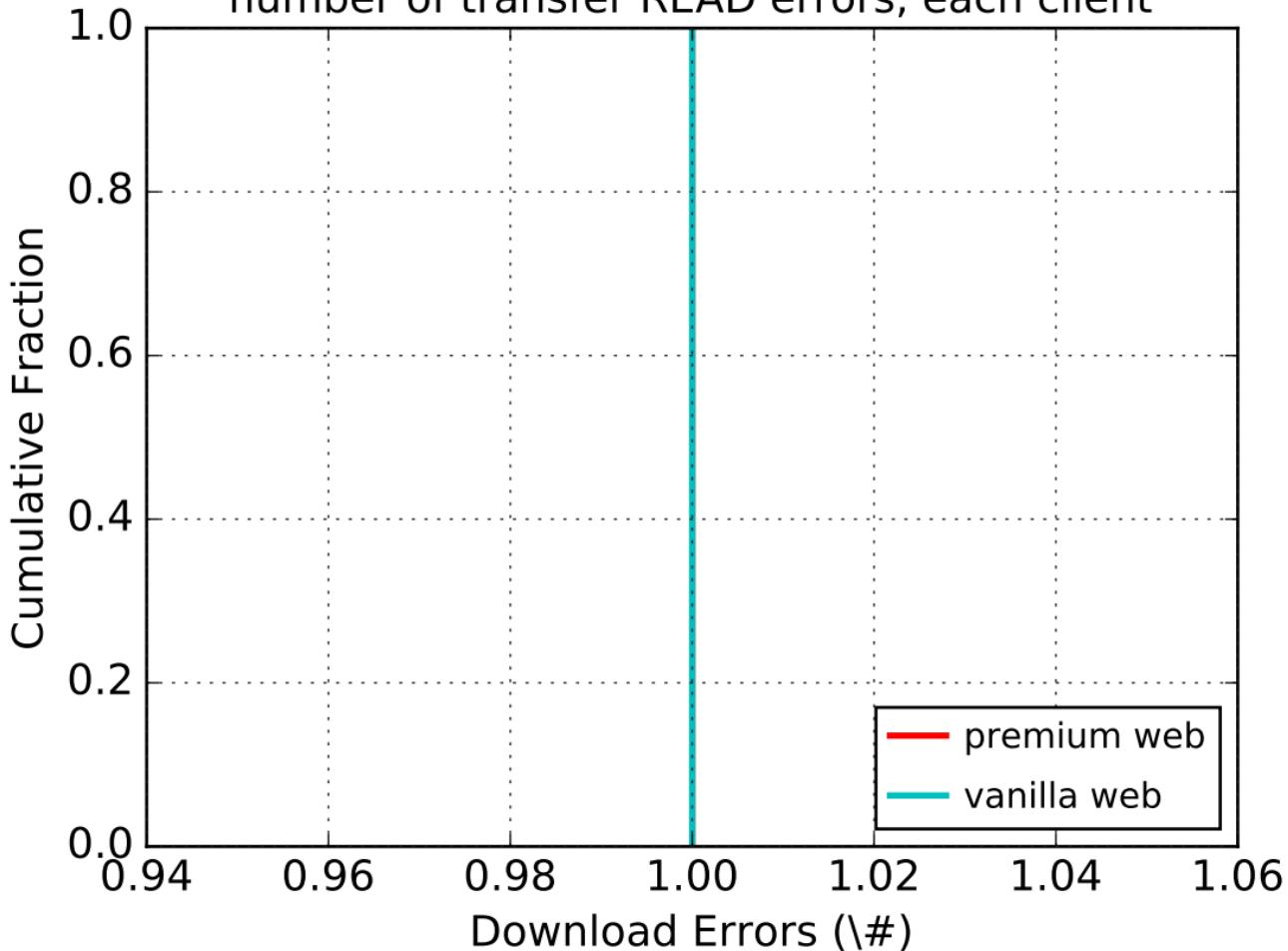
number of 5242880 byte downloads completed, each client

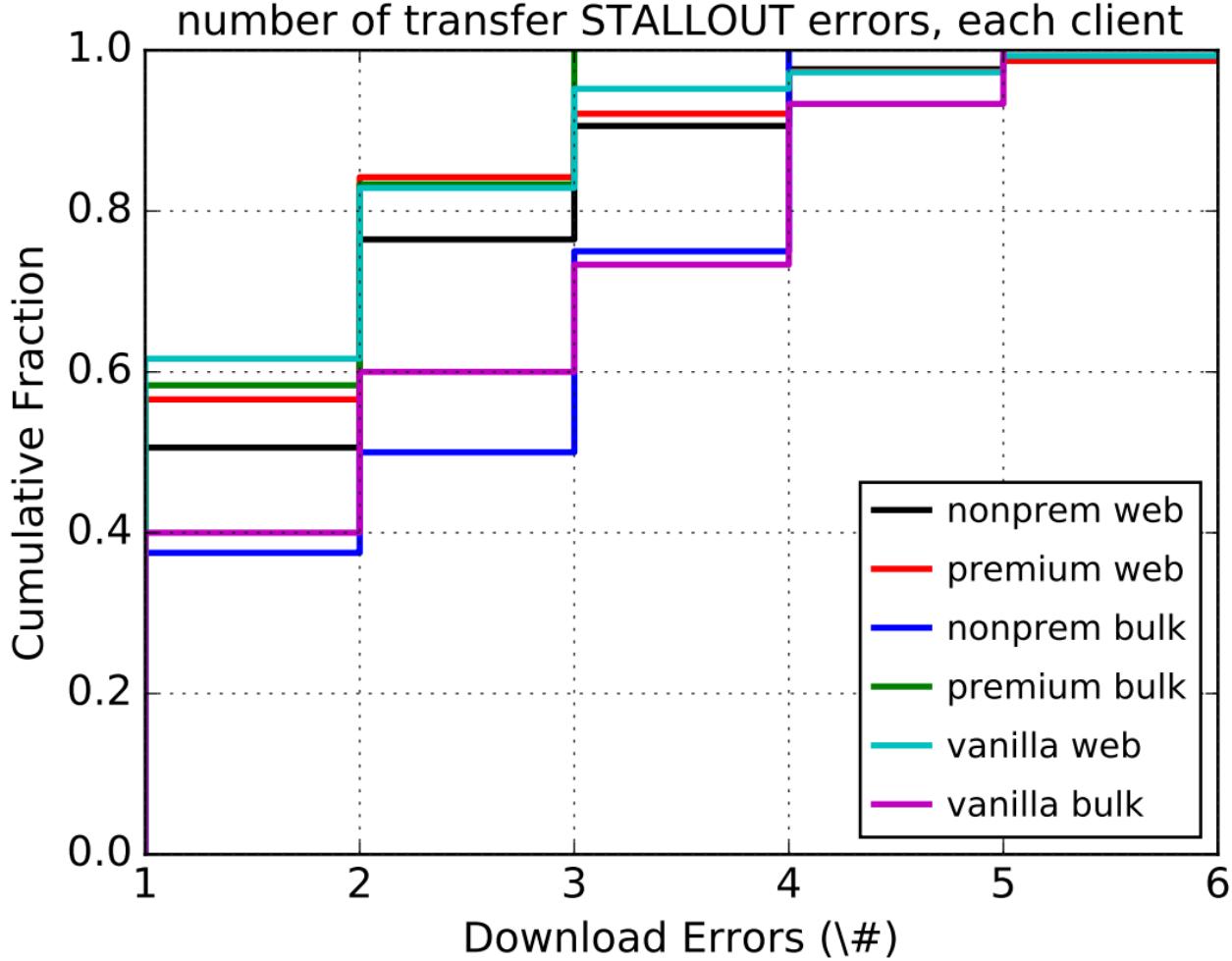


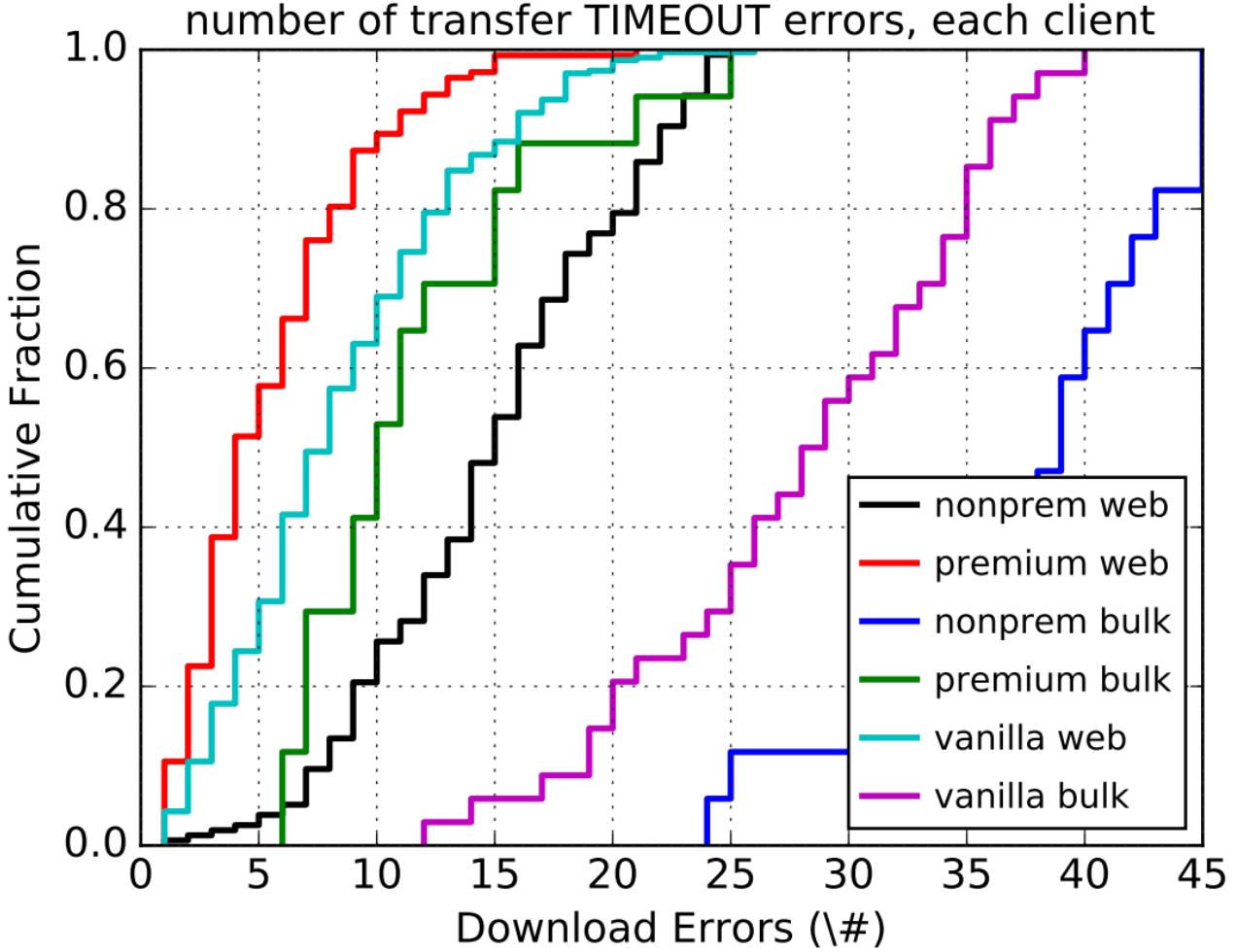
number of transfer AUTH errors, each client

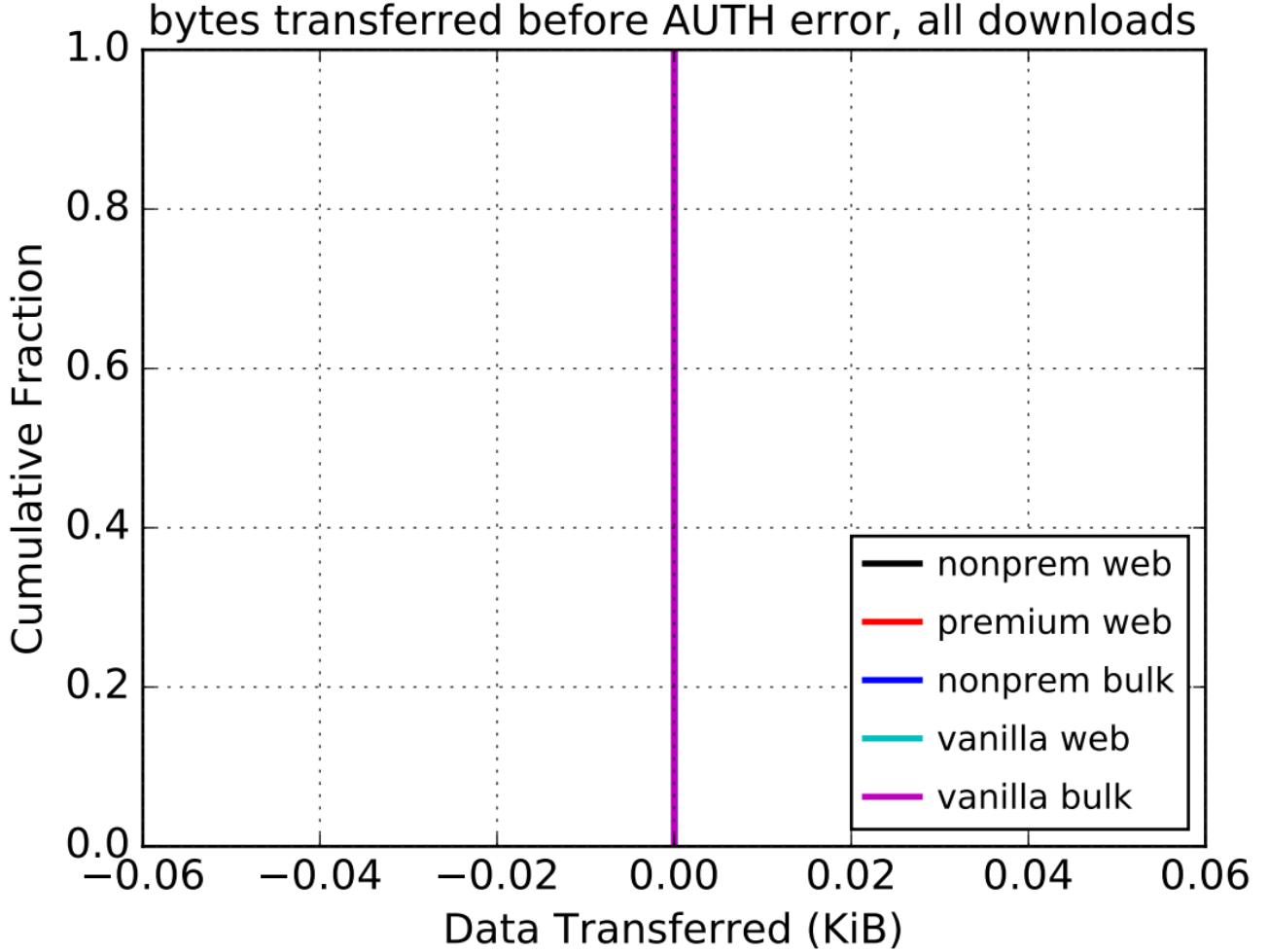


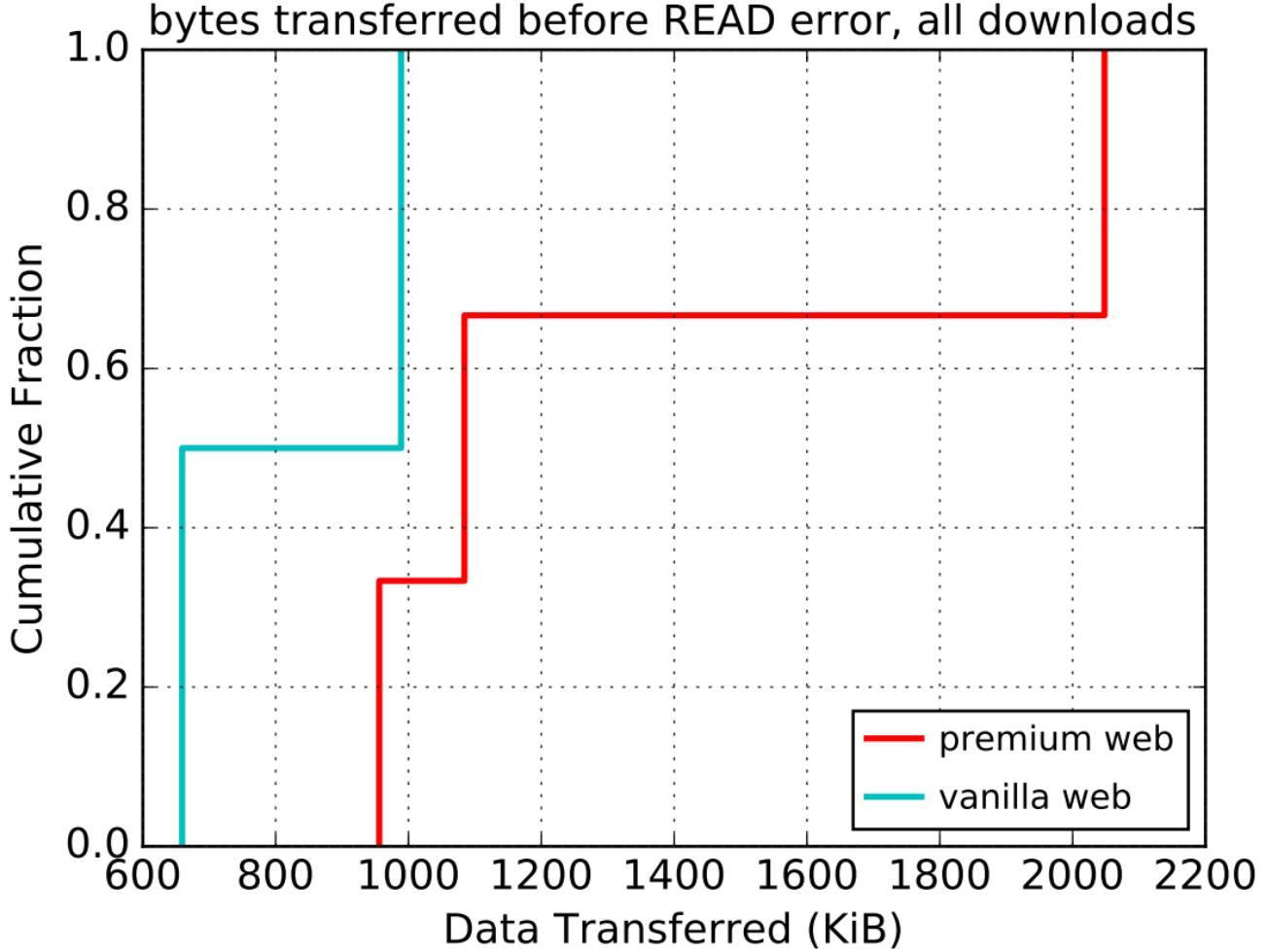
number of transfer READ errors, each client

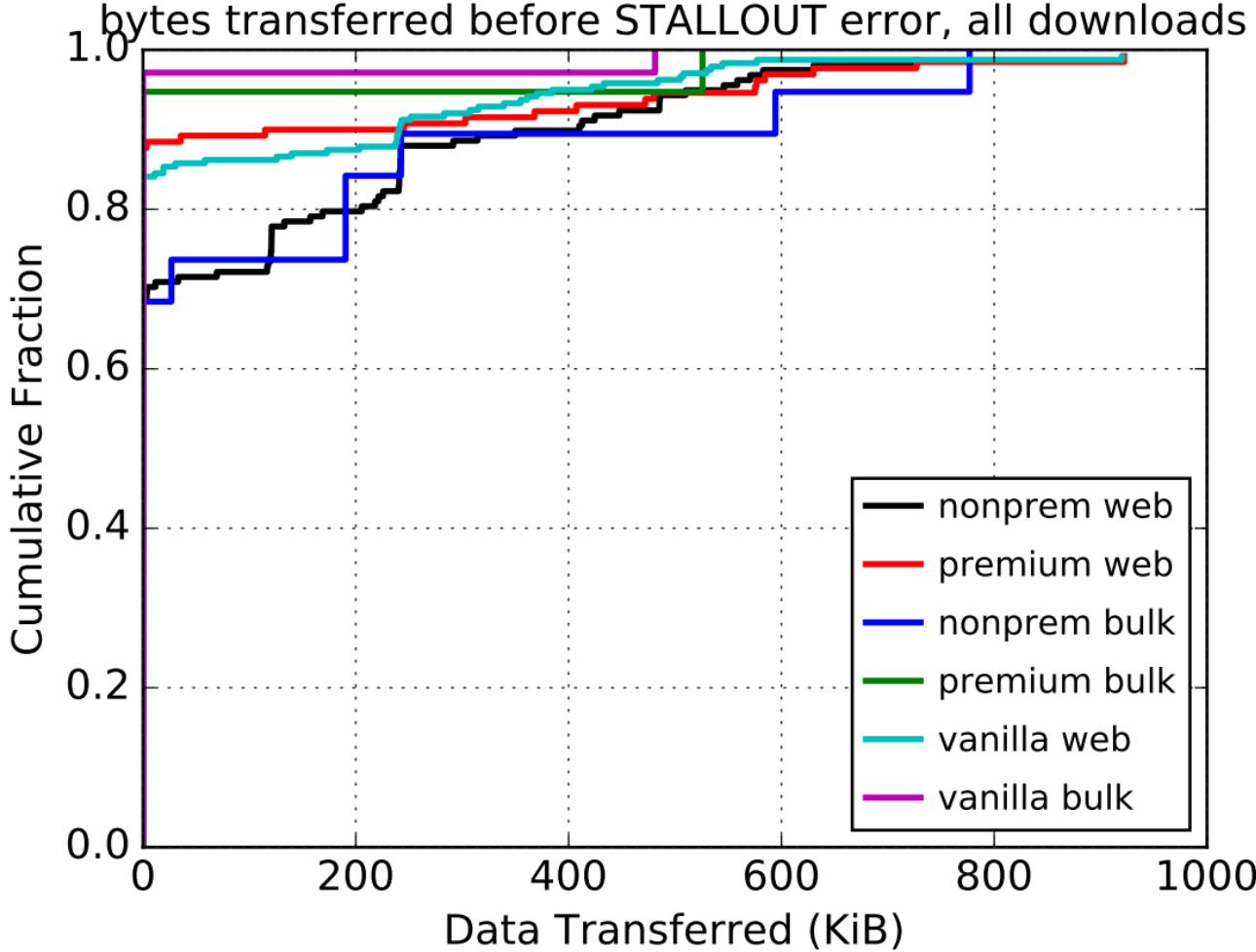


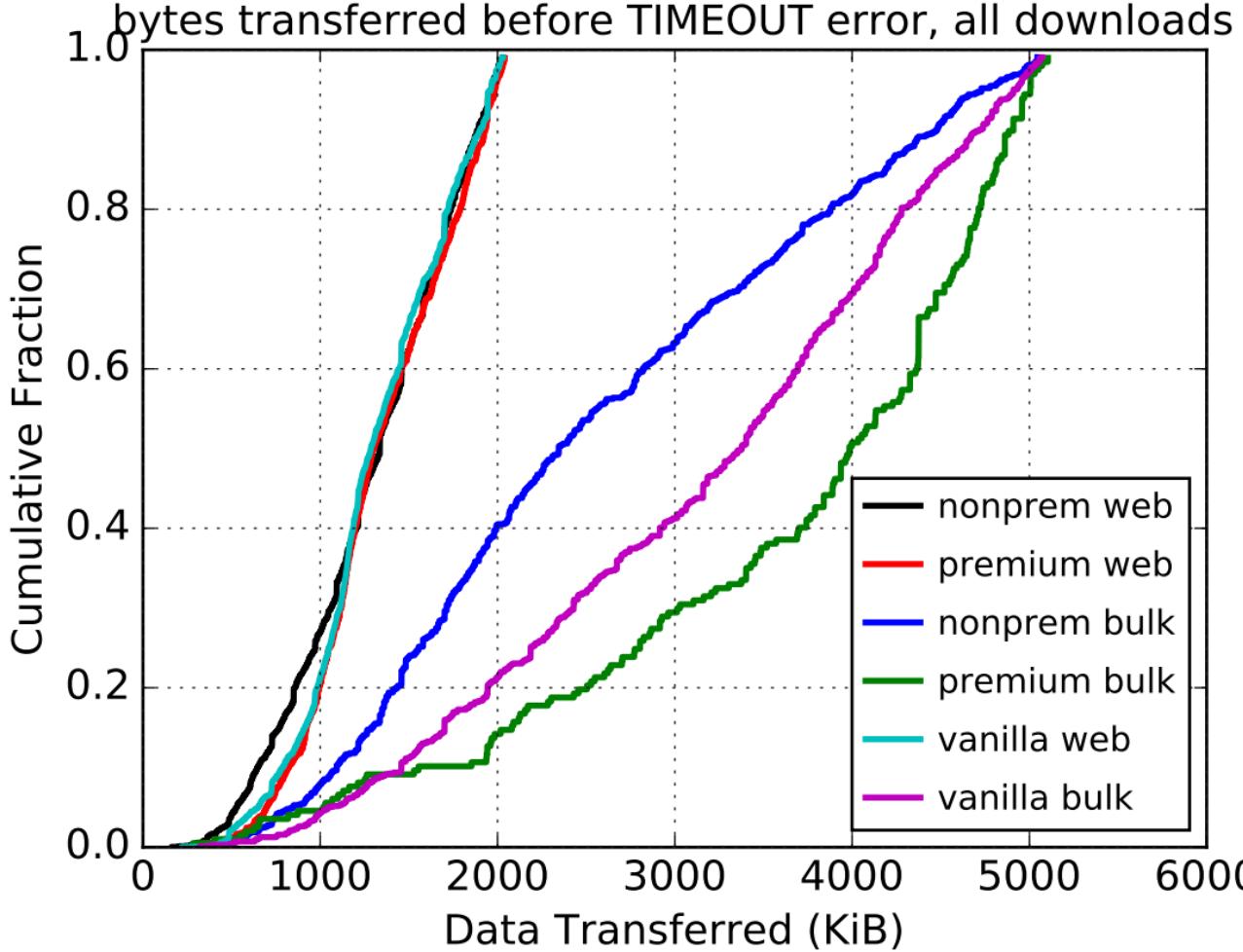


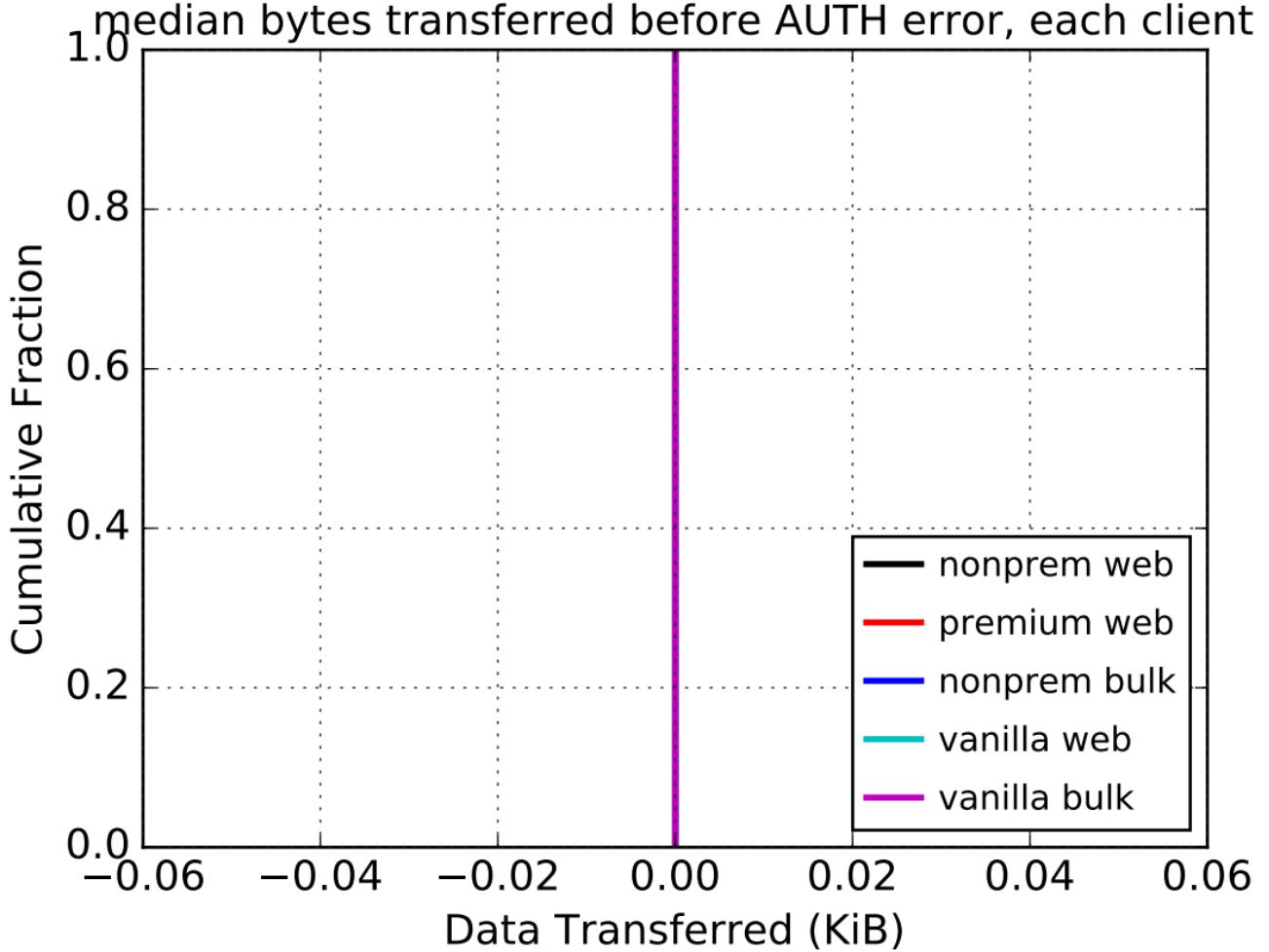




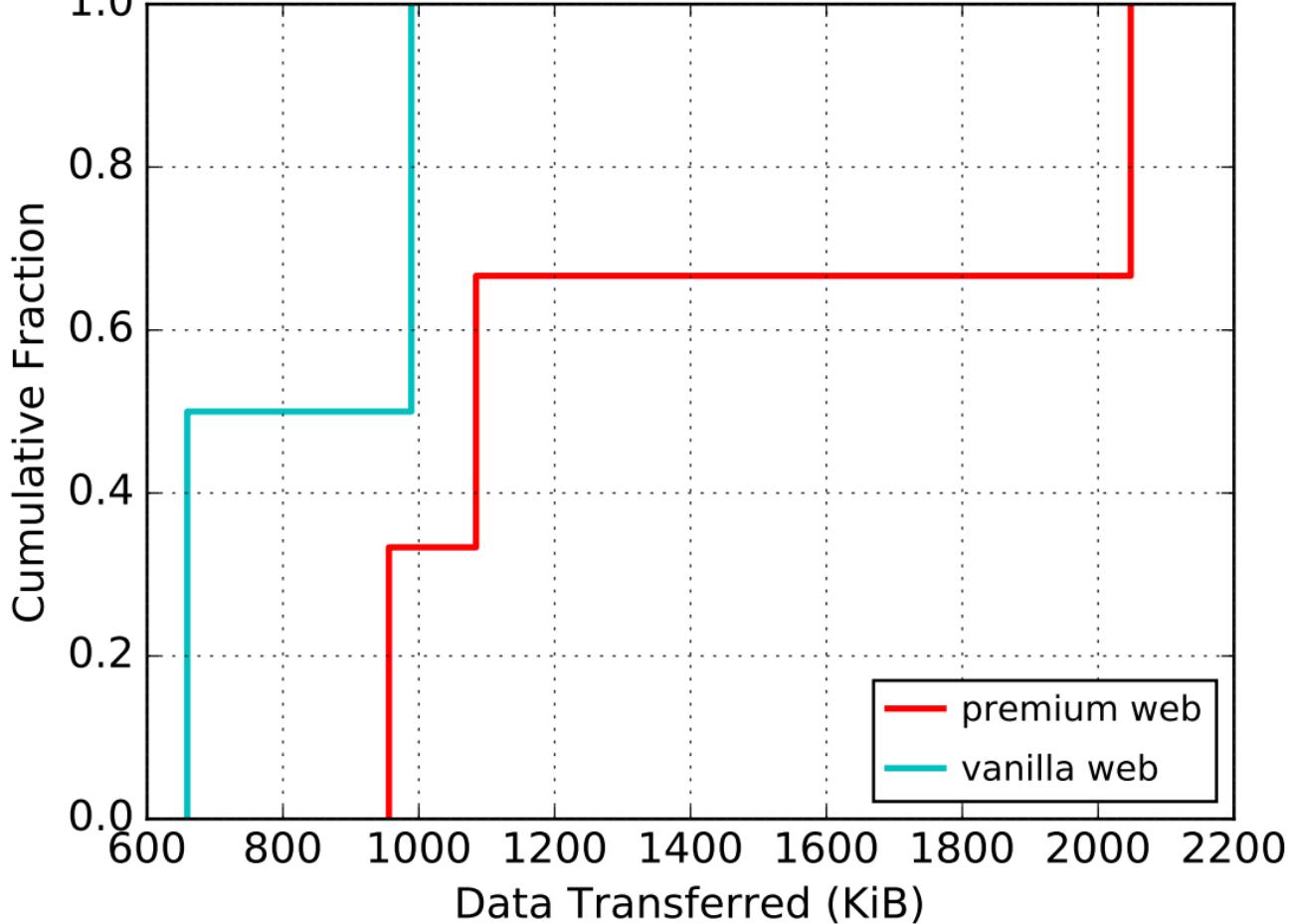


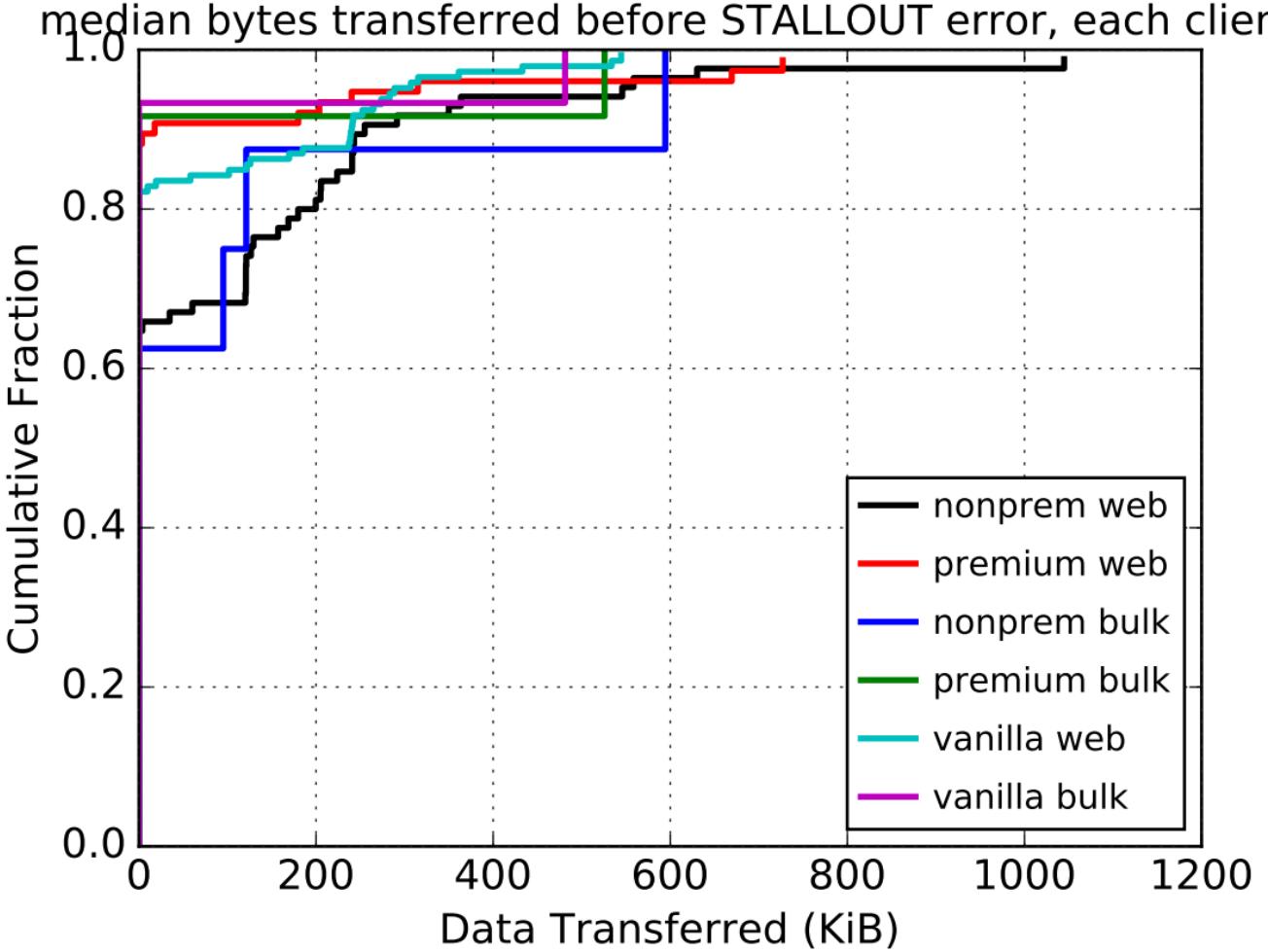




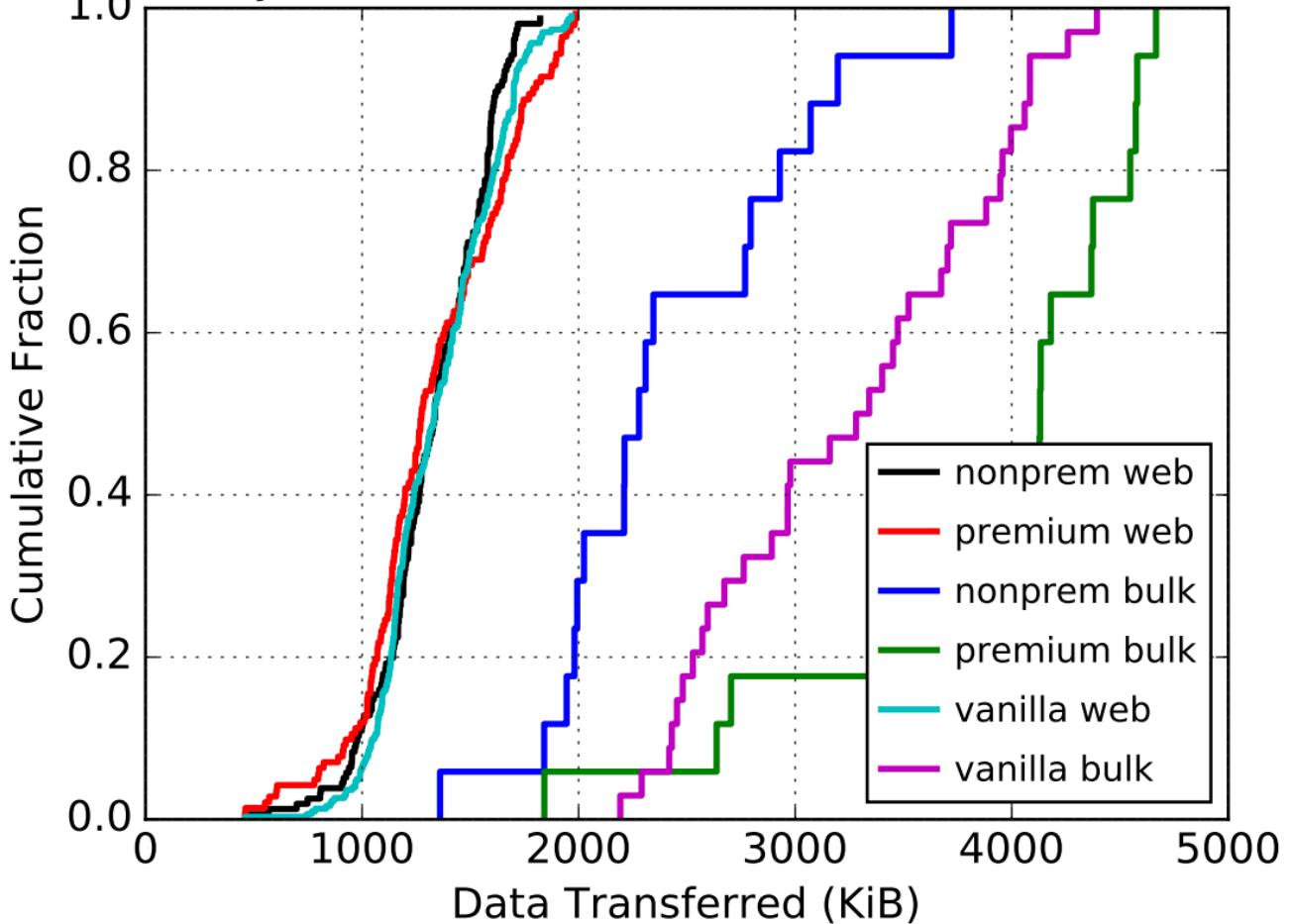


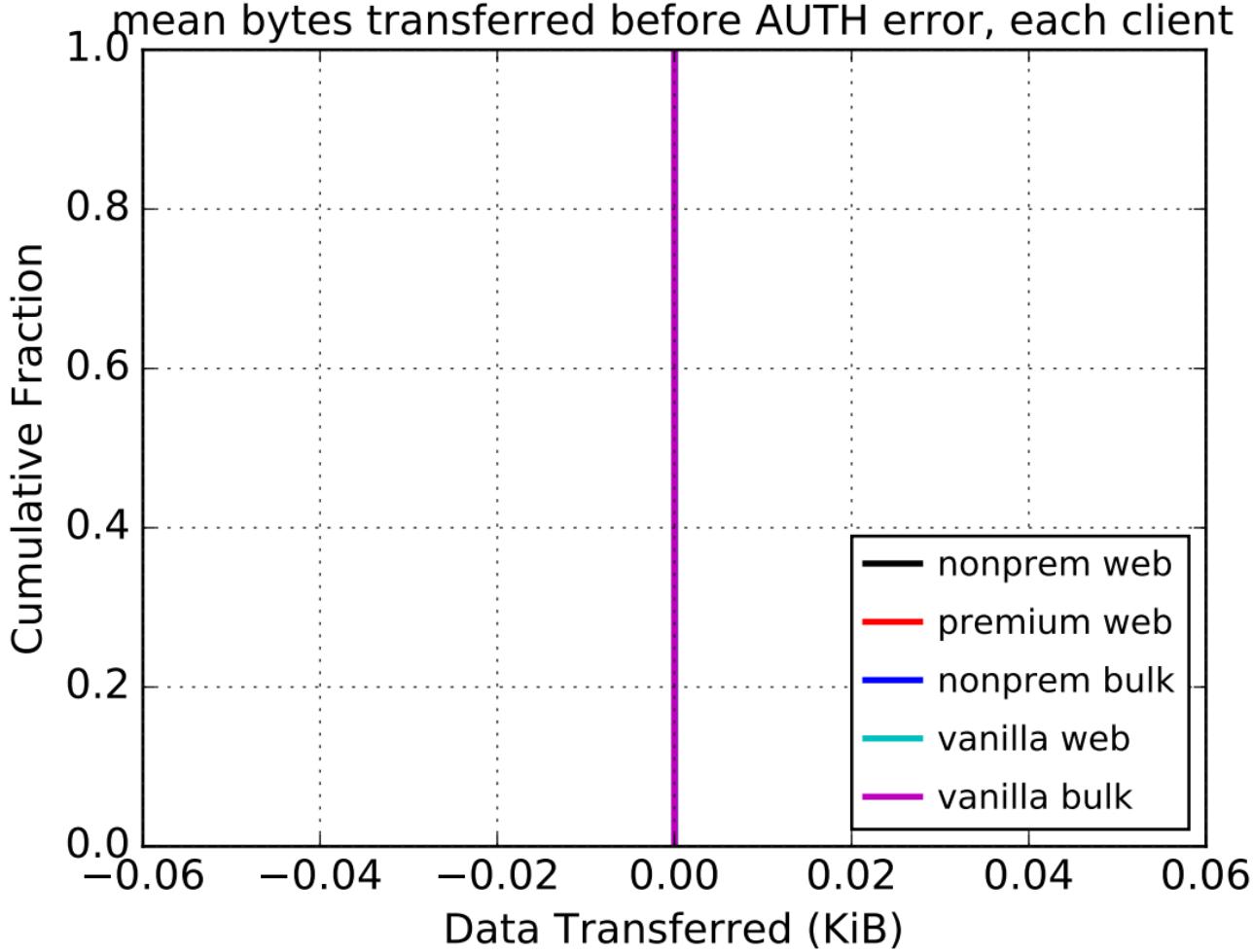
median bytes transferred before READ error, each client

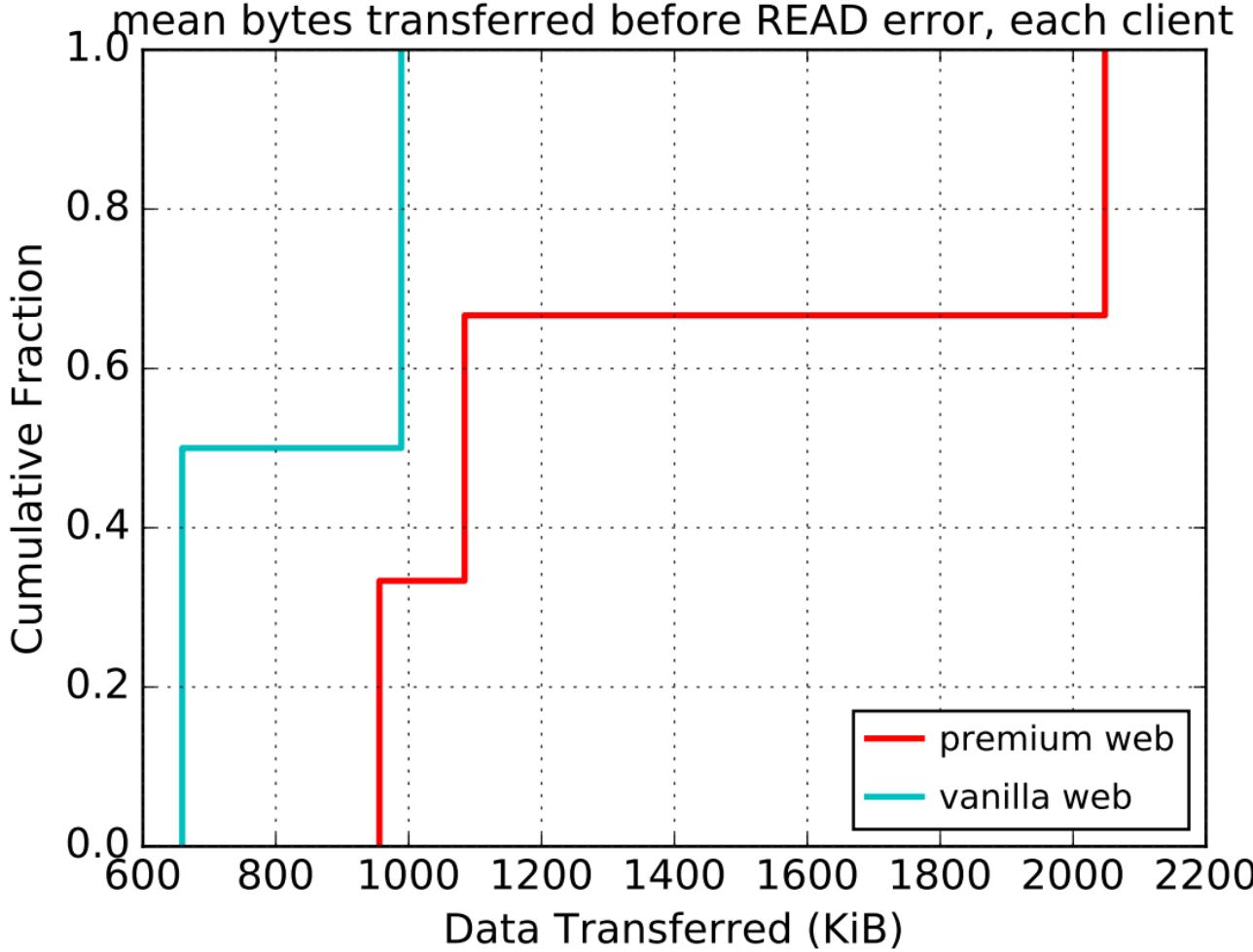




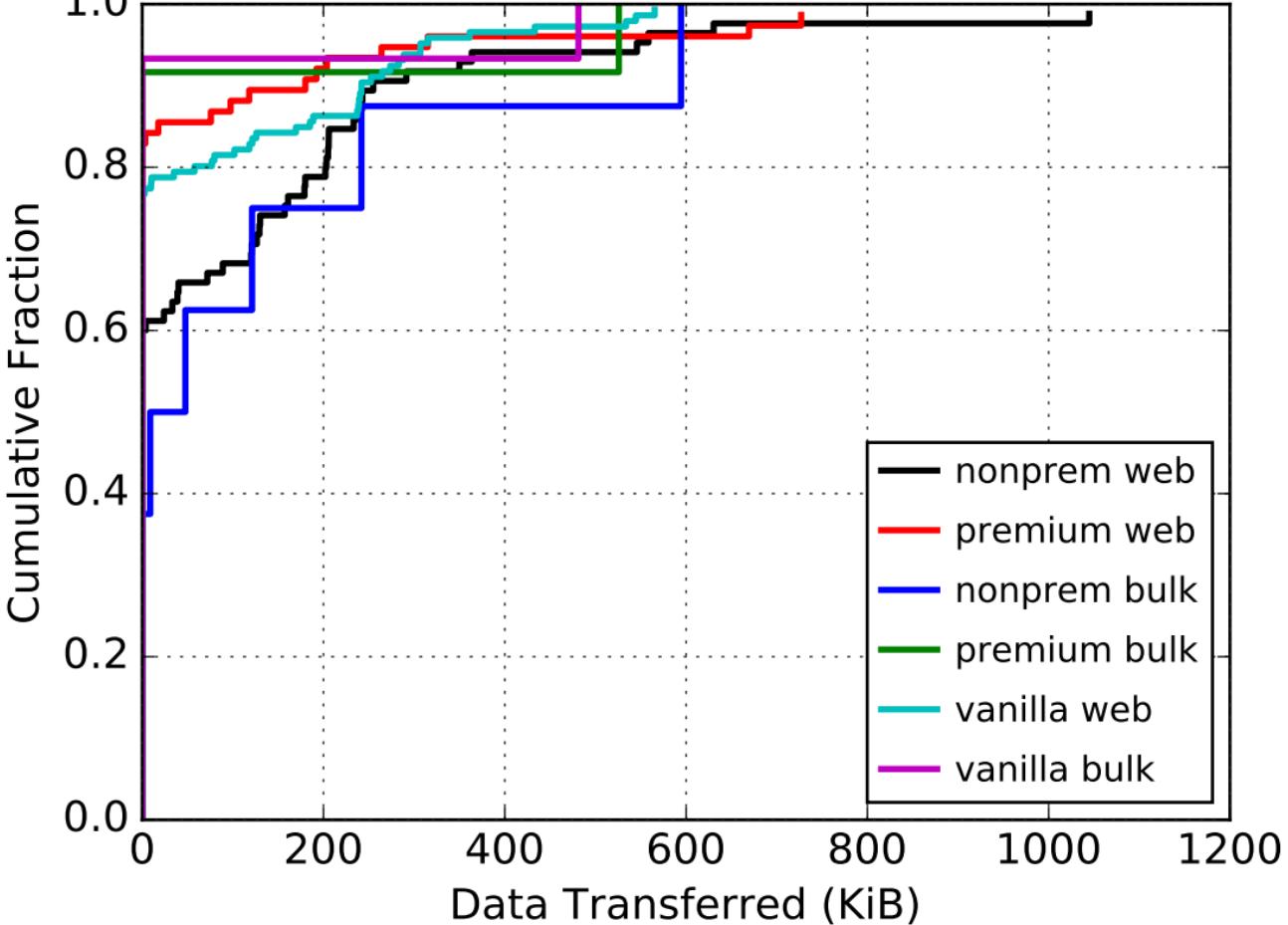
median bytes transferred before TIMEOUT error, each client







mean bytes transferred before STALLOUT error, each client



mean bytes transferred before TIMEOUT error, each client

