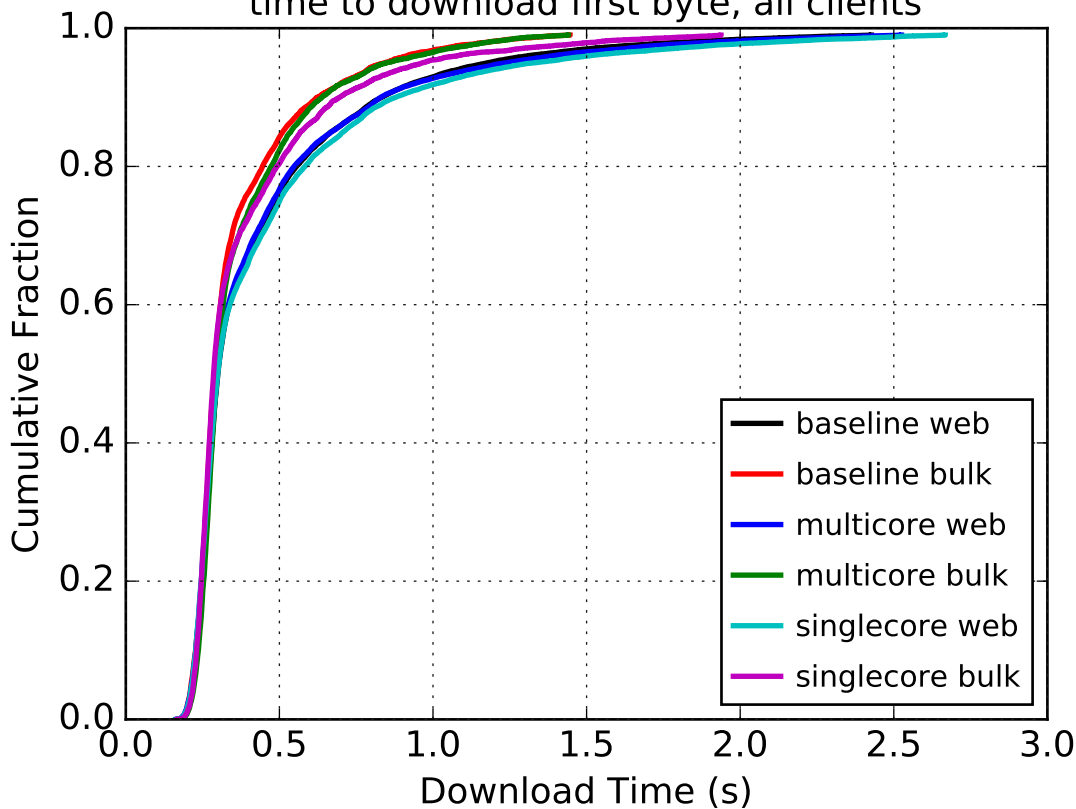
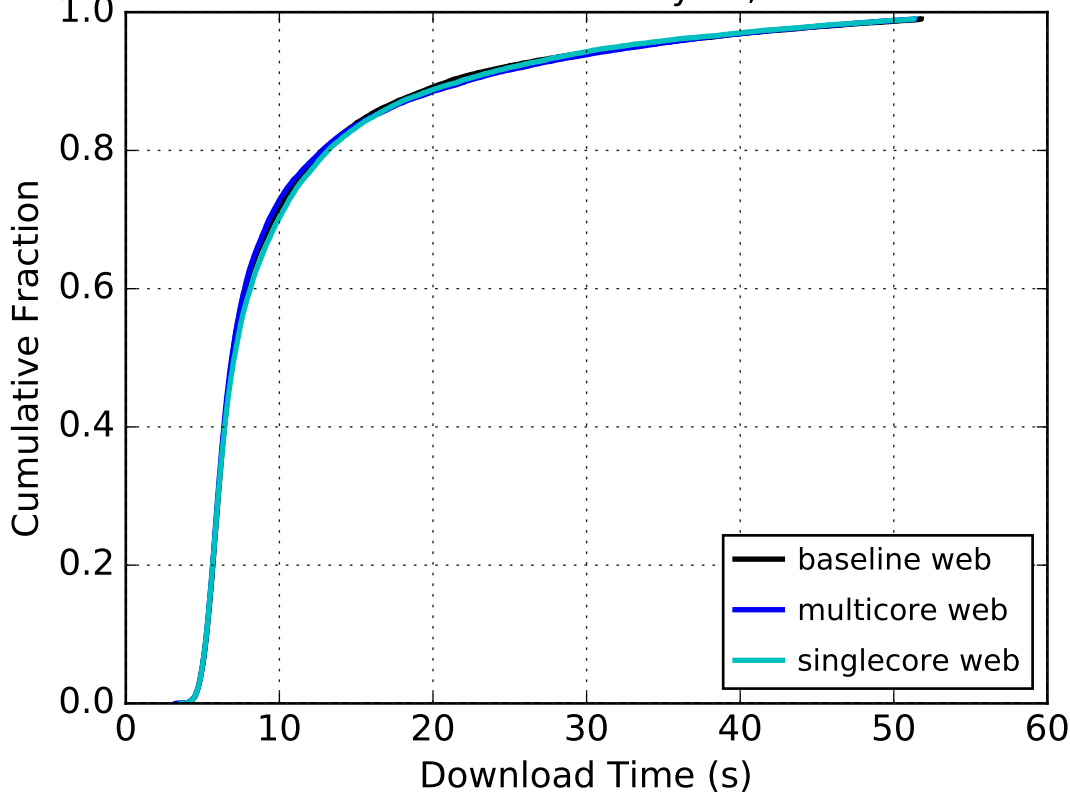


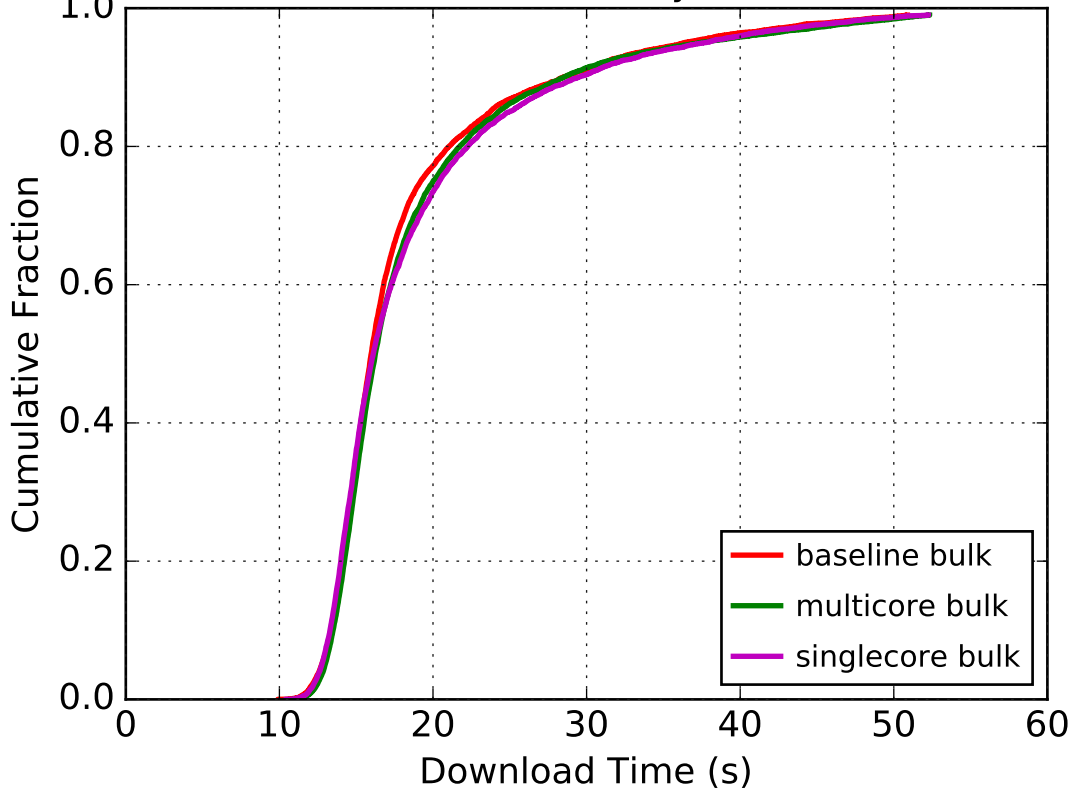
time to download first byte, all clients



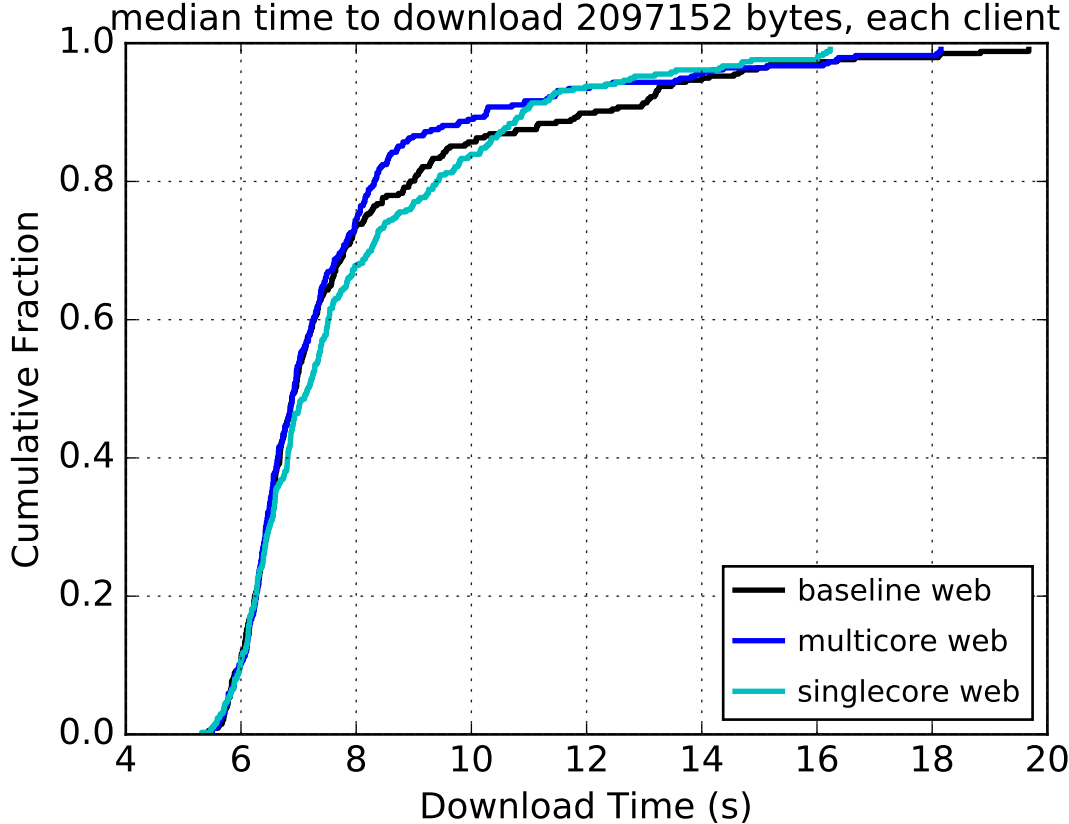
time to download 2097152 bytes, all downloads



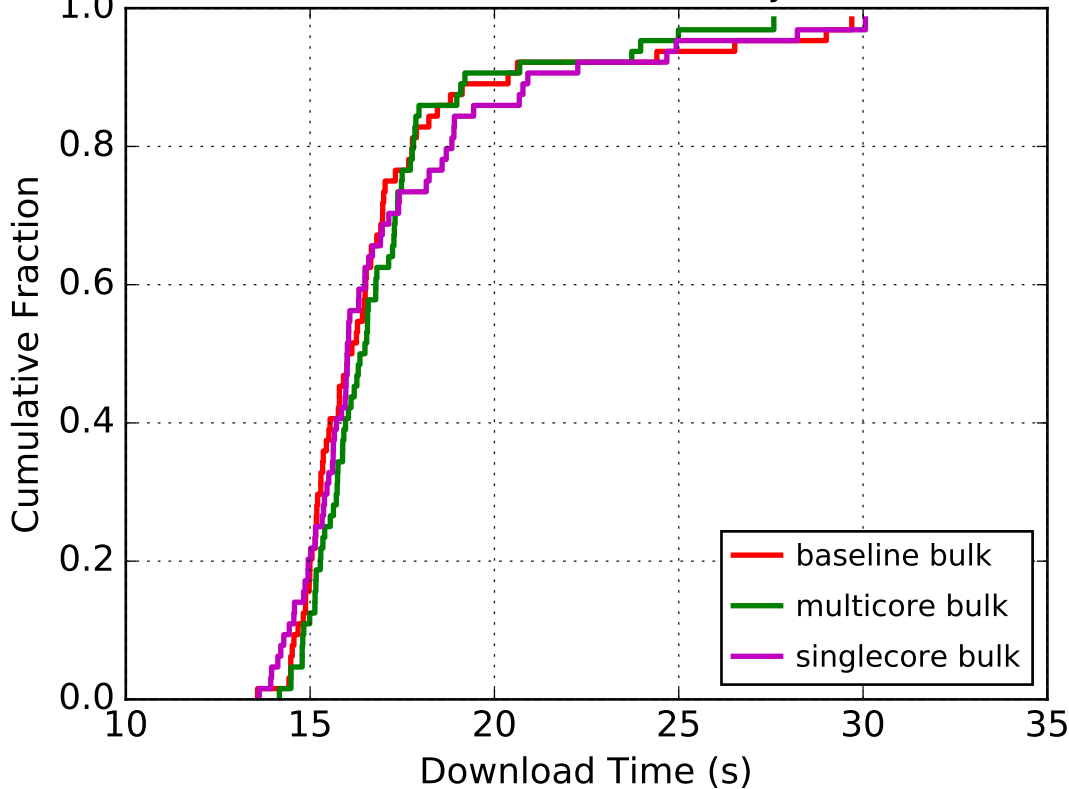
time to download 5242880 bytes, all downloads



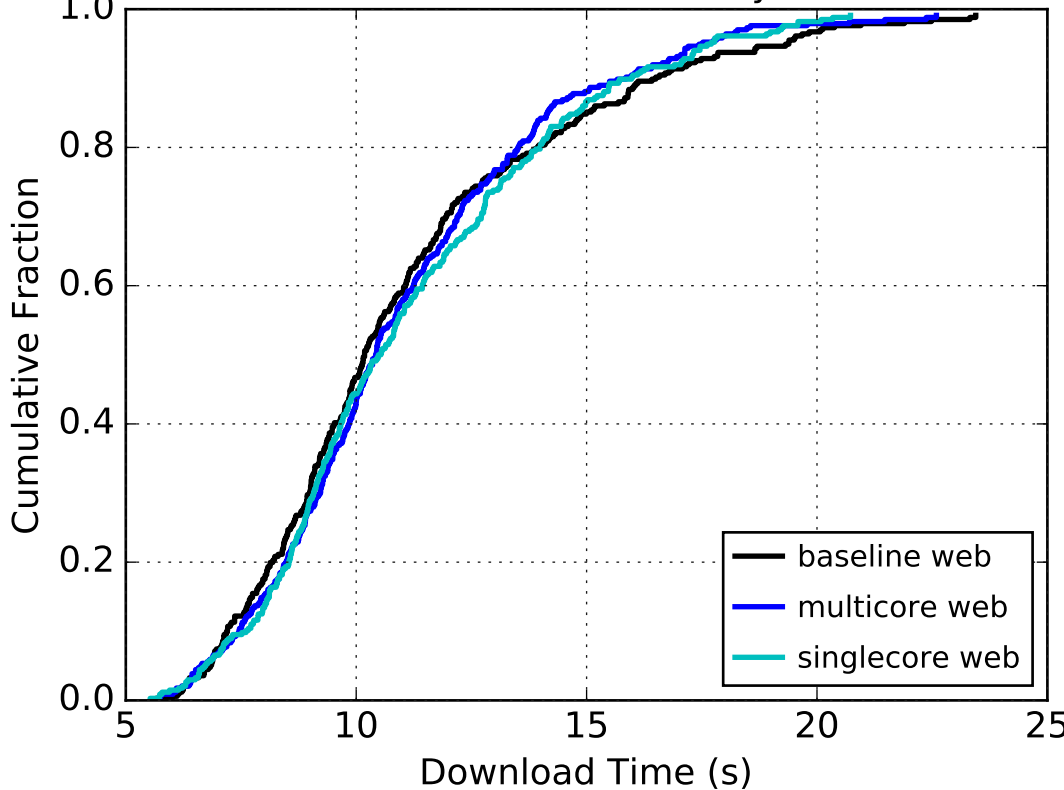
median time to download 2097152 bytes, each client



median time to download 5242880 bytes, each client



mean time to download 2097152 bytes, each client

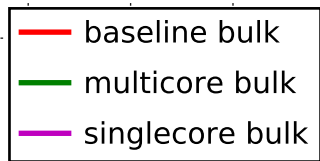


mean time to download 5242880 bytes, each client

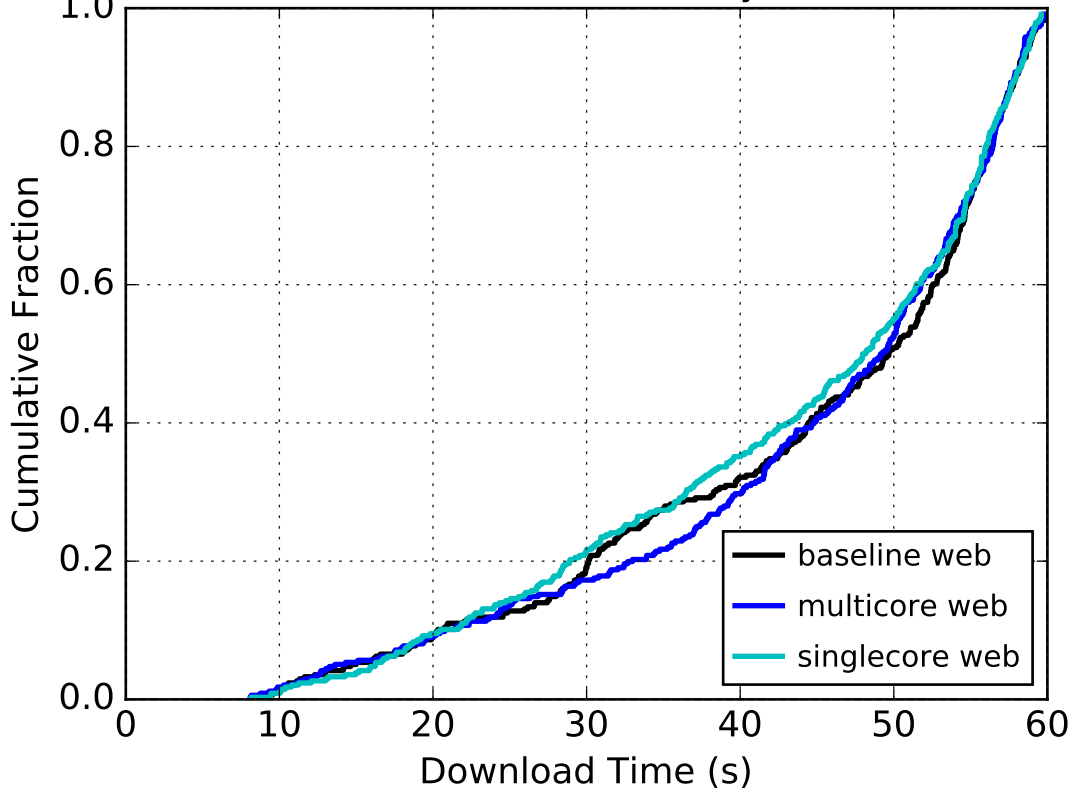
Cumulative Fraction

1.0
0.8
0.6
0.4
0.2
0.0

Download Time (s)



max time to download 2097152 bytes, each client



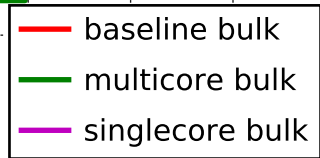
max time to download 5242880 bytes, each client

Cumulative Fraction

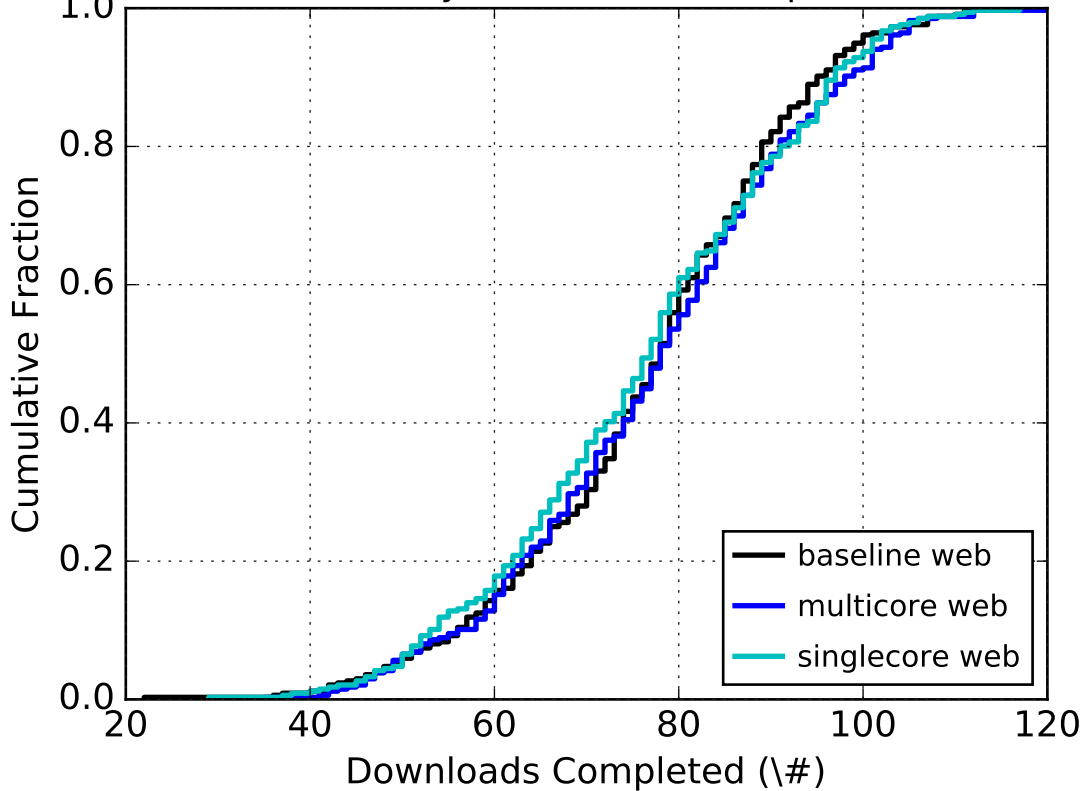
1.0
0.8
0.6
0.4
0.2
0.0

15 20 25 30 35 40 45 50 55 60

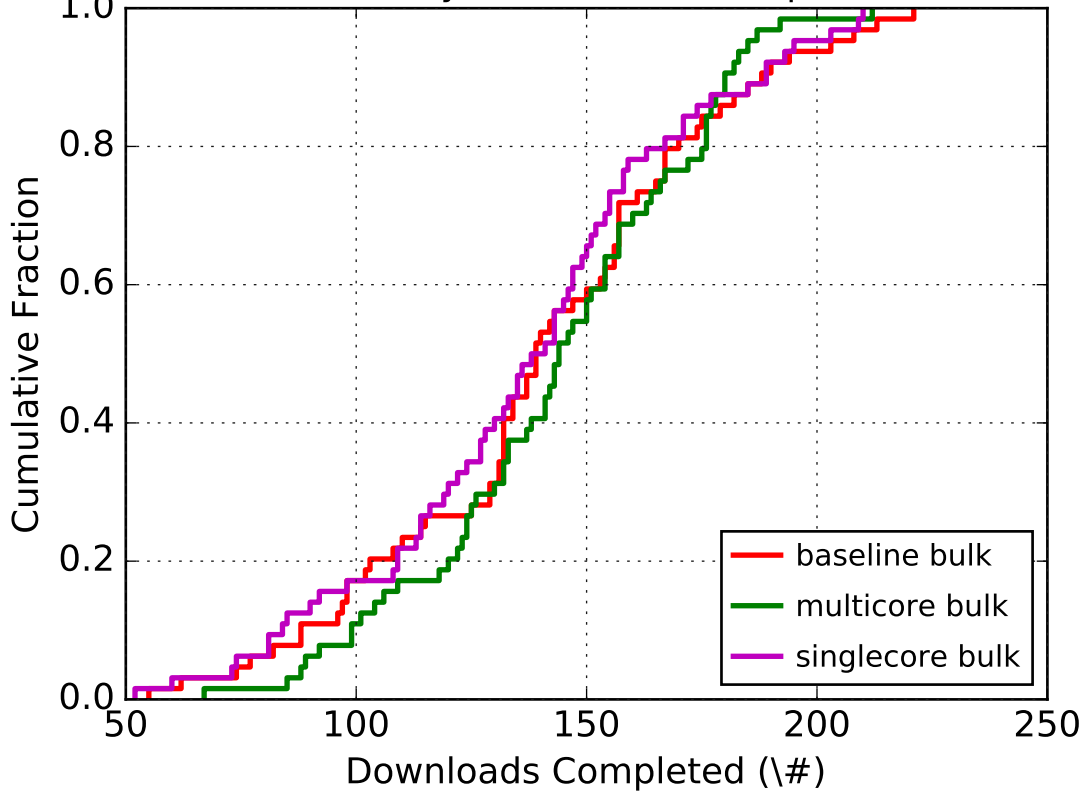
Download Time (s)



number of 2097152 byte downloads completed, each client

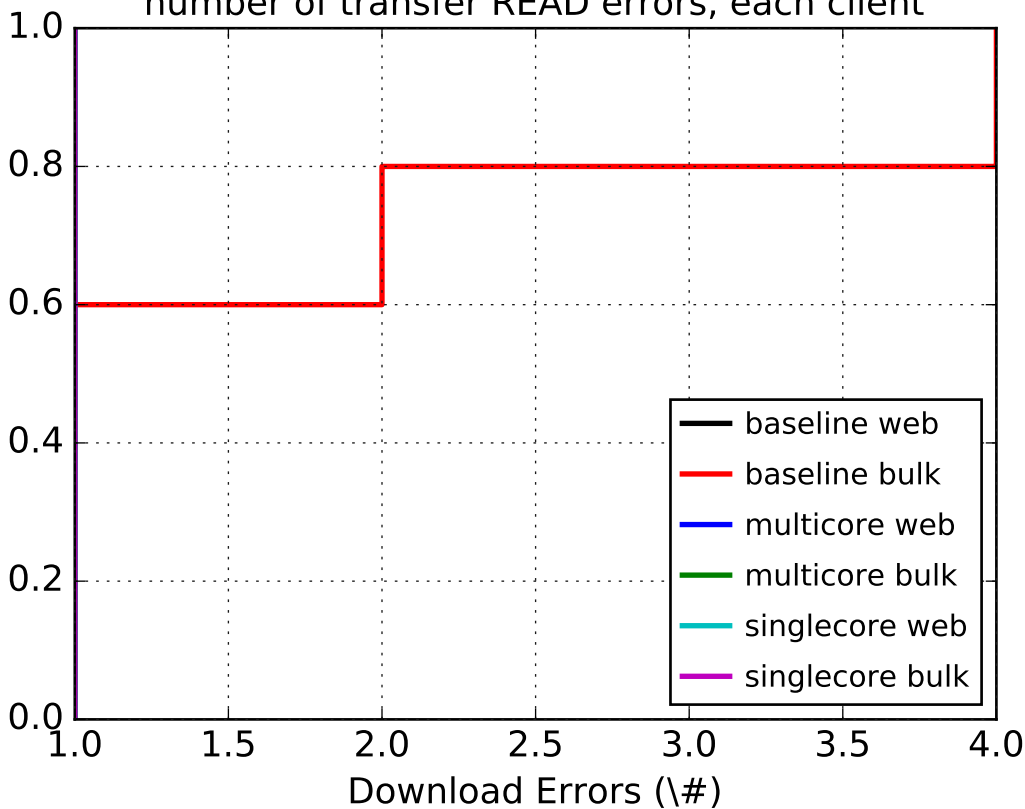


number of 5242880 byte downloads completed, each client

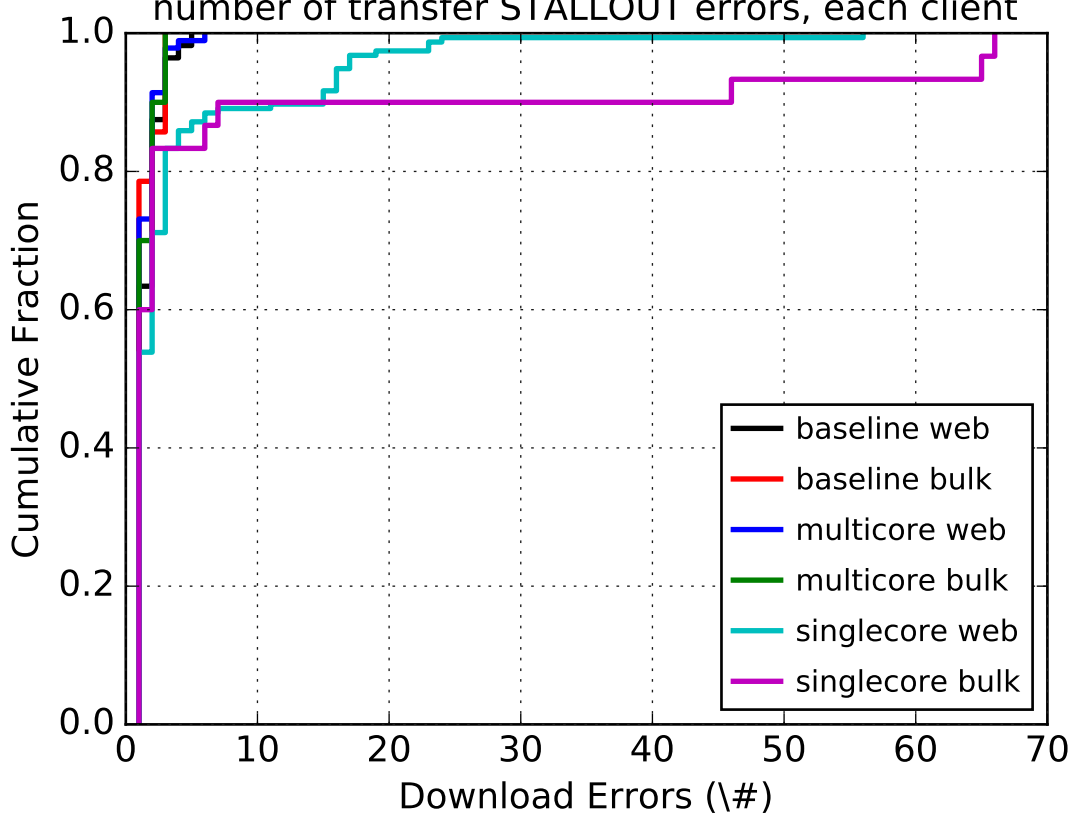


number of transfer READ errors, each client

Cumulative Fraction

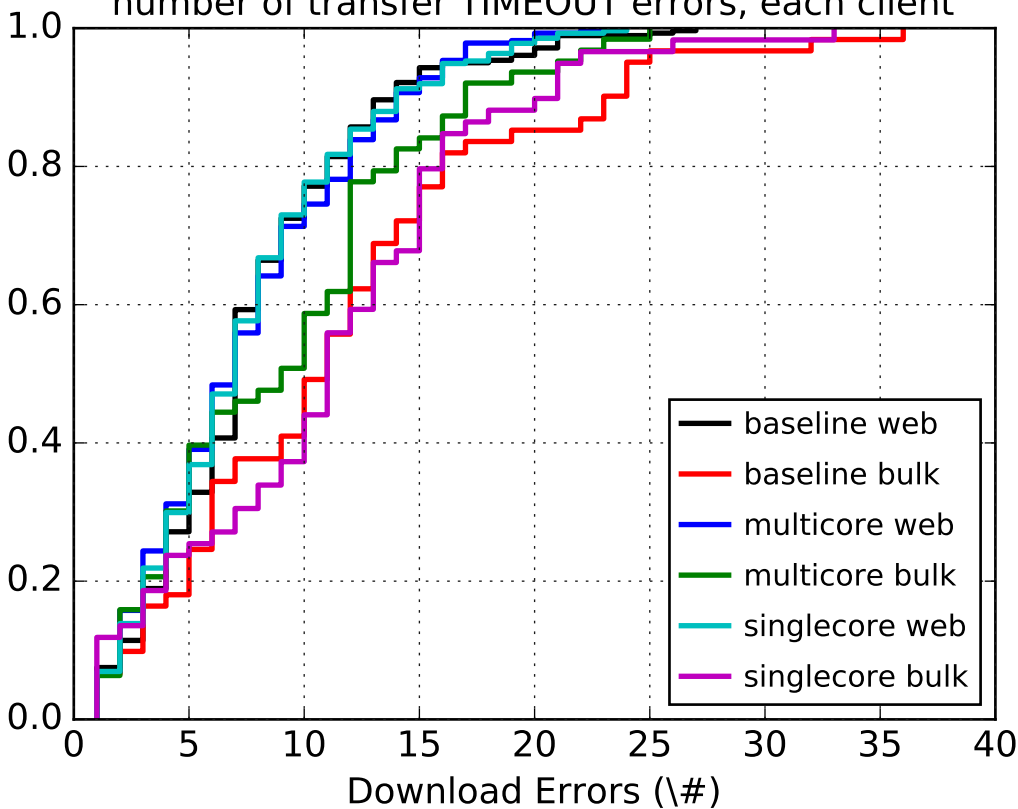


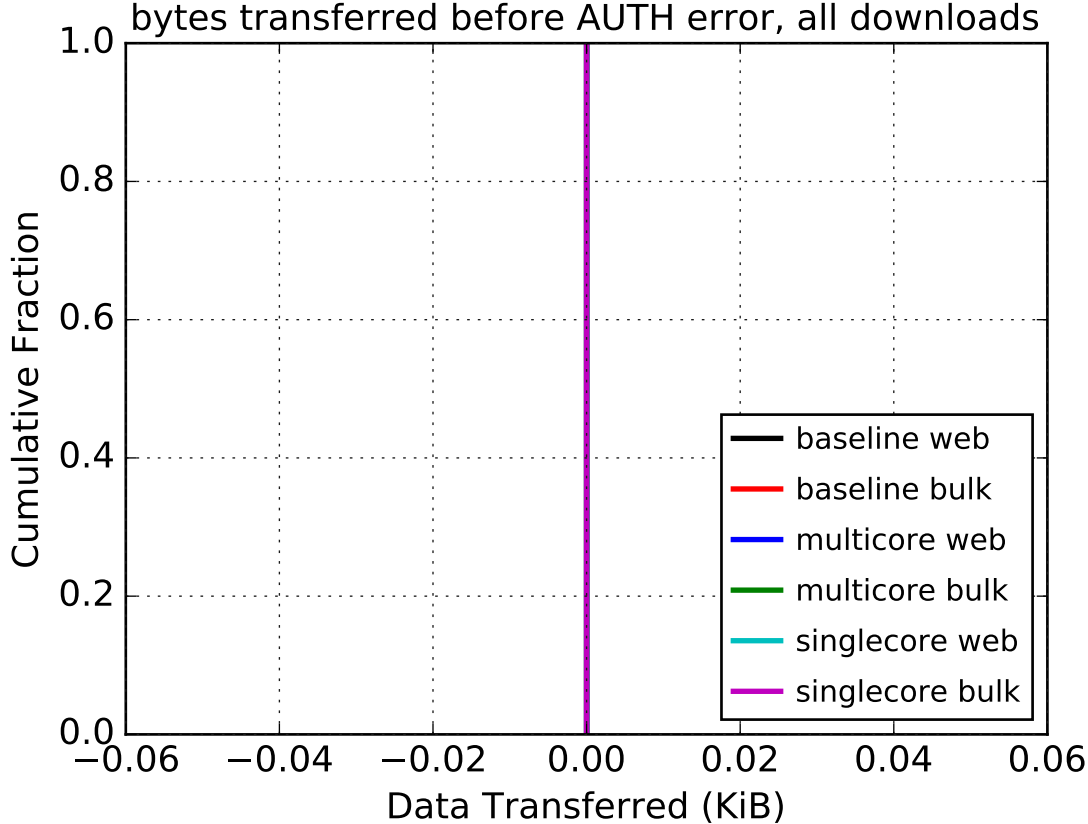
number of transfer STALLOUT errors, each client



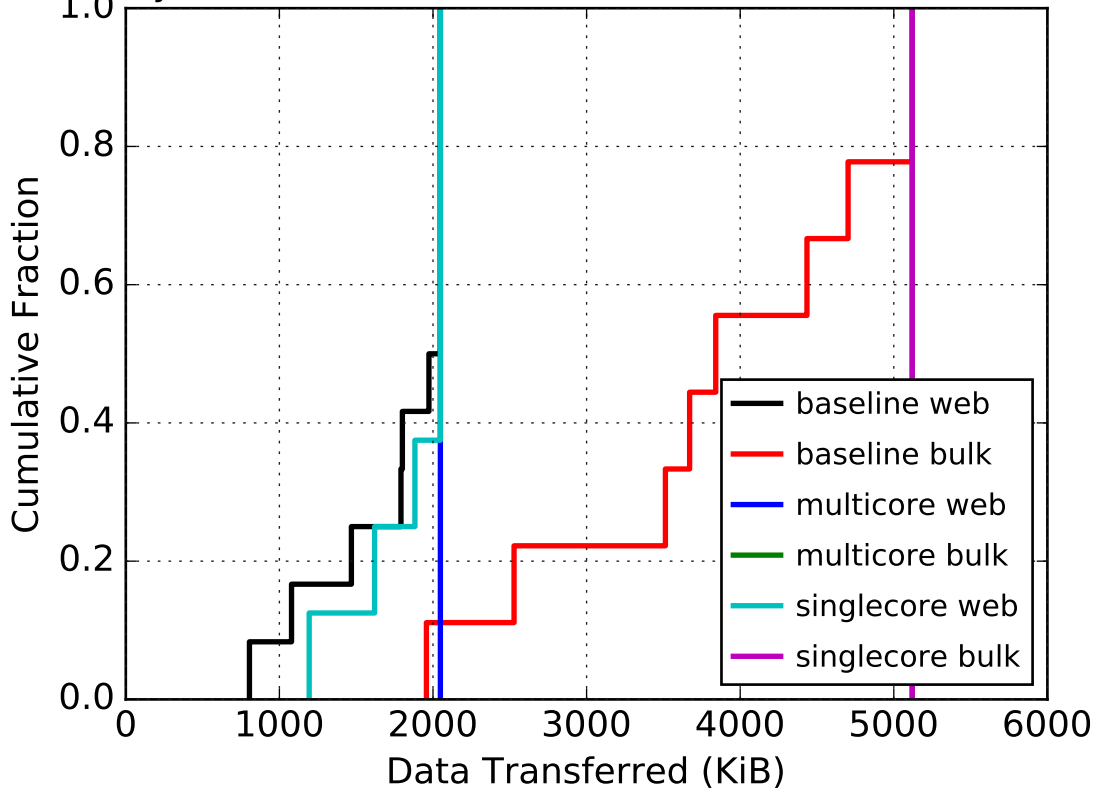
number of transfer TIMEOUT errors, each client

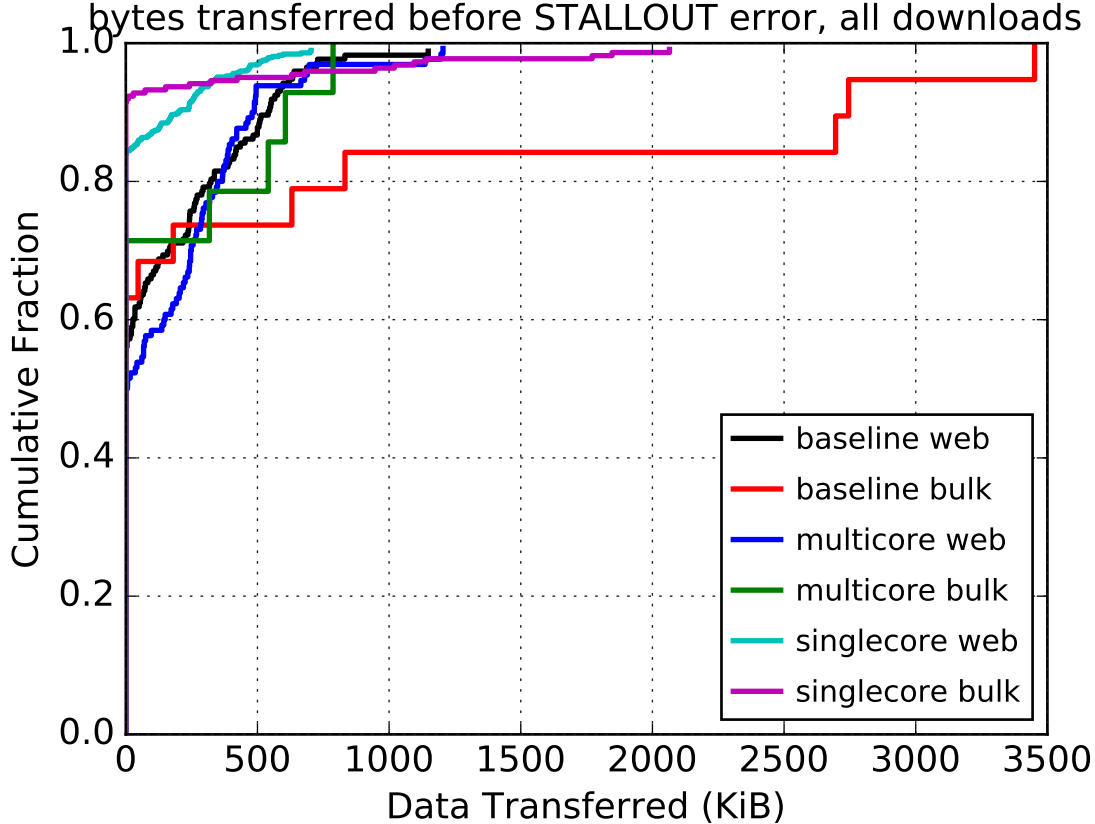
Cumulative Fraction

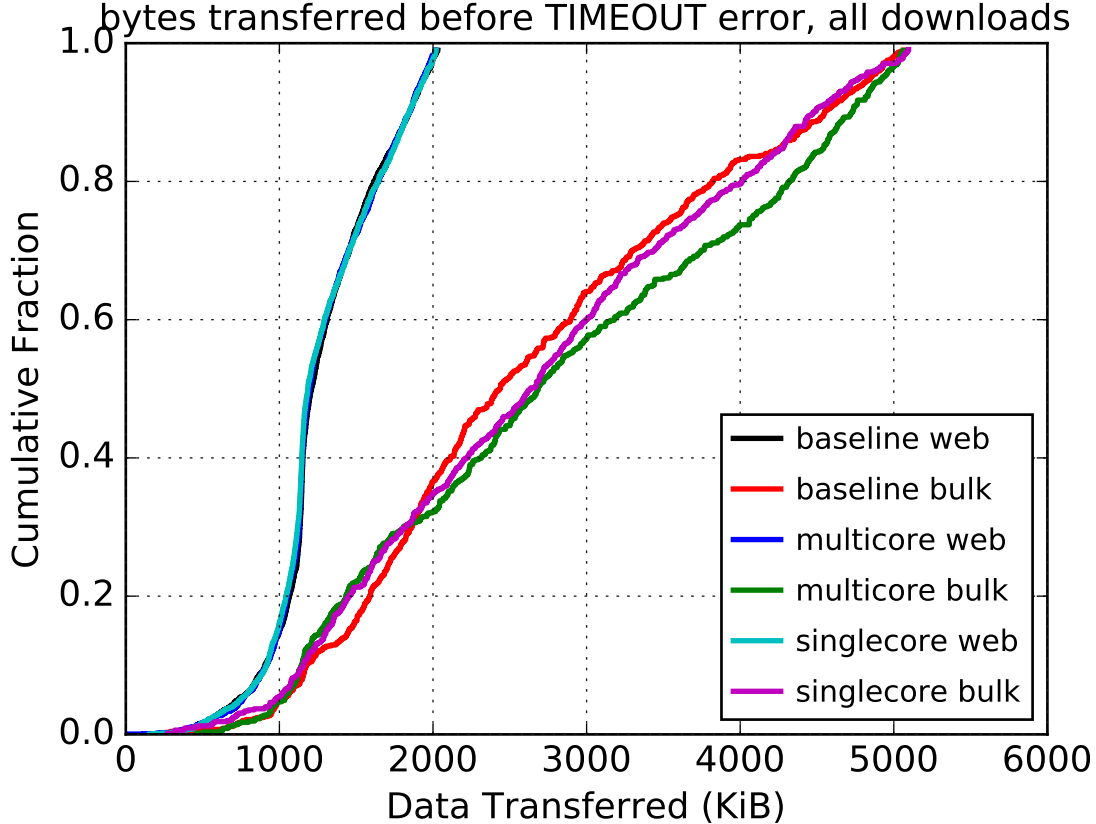


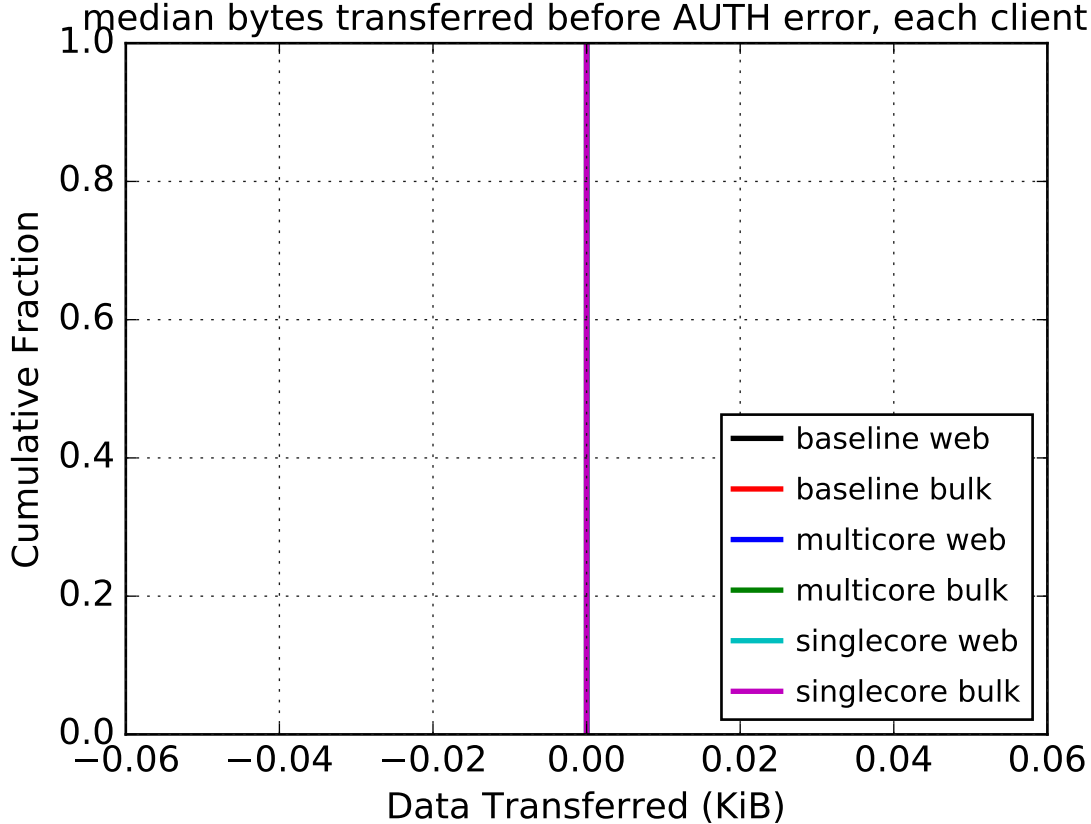


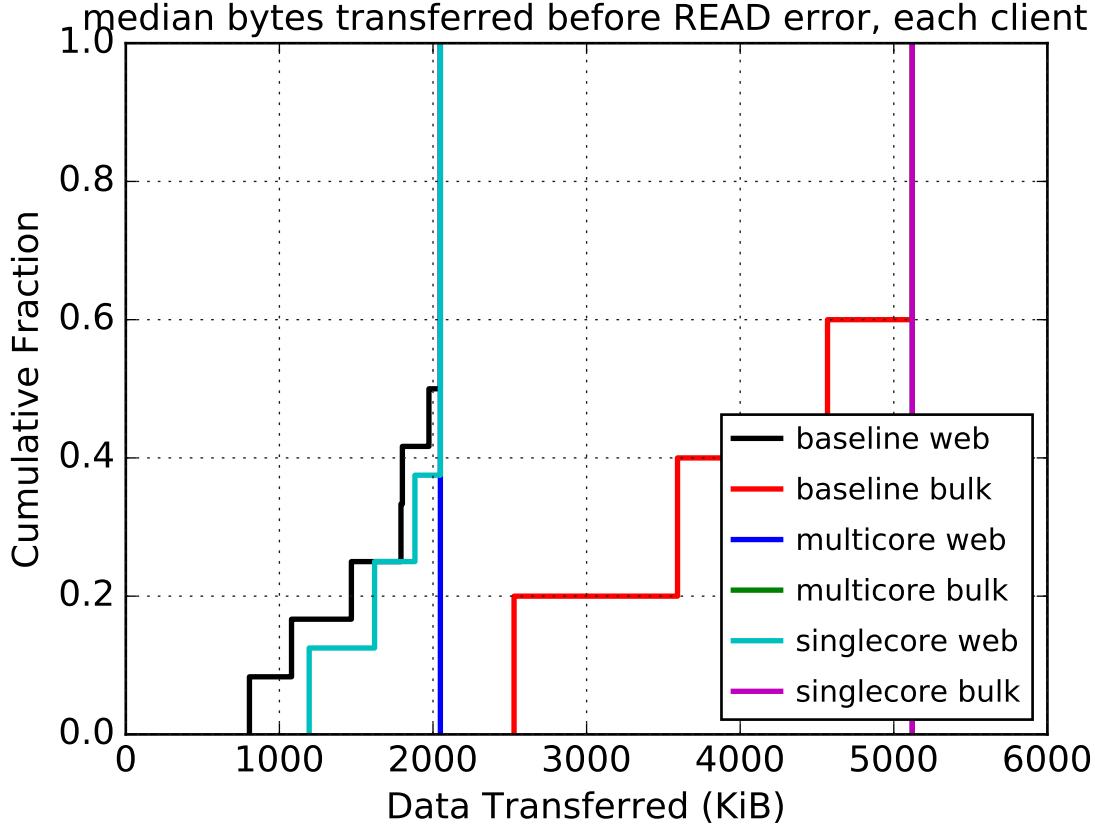
bytes transferred before READ error, all downloads



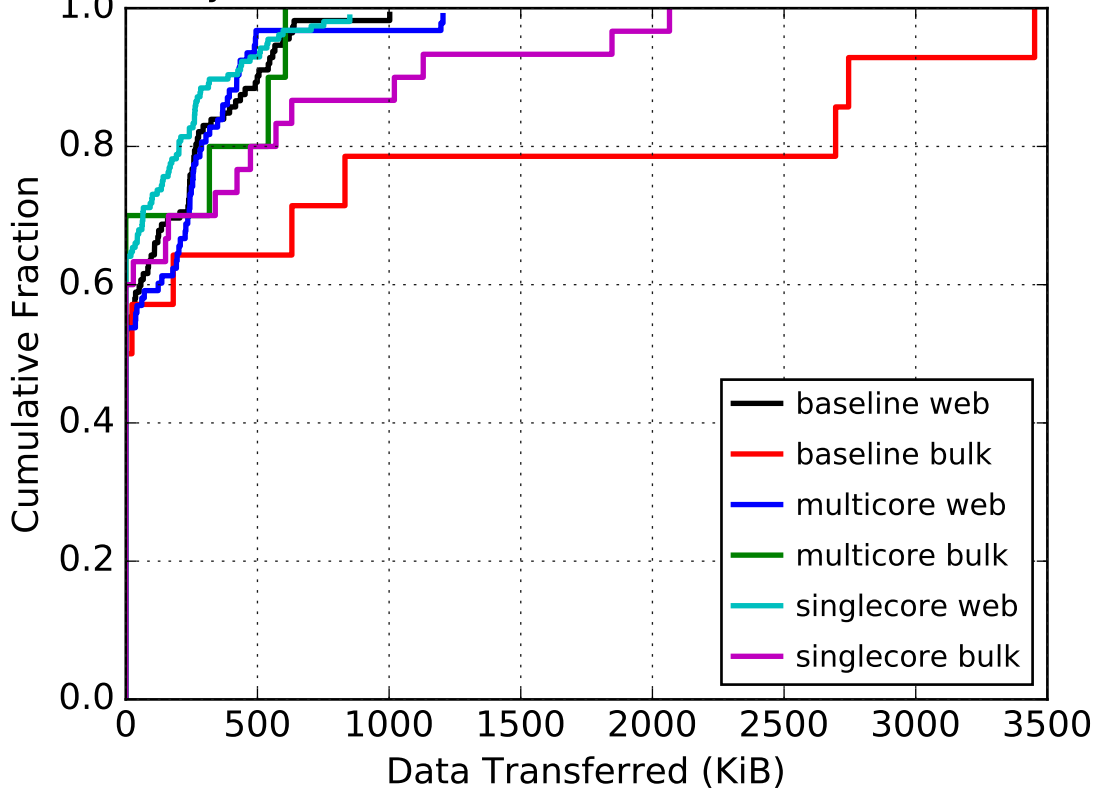




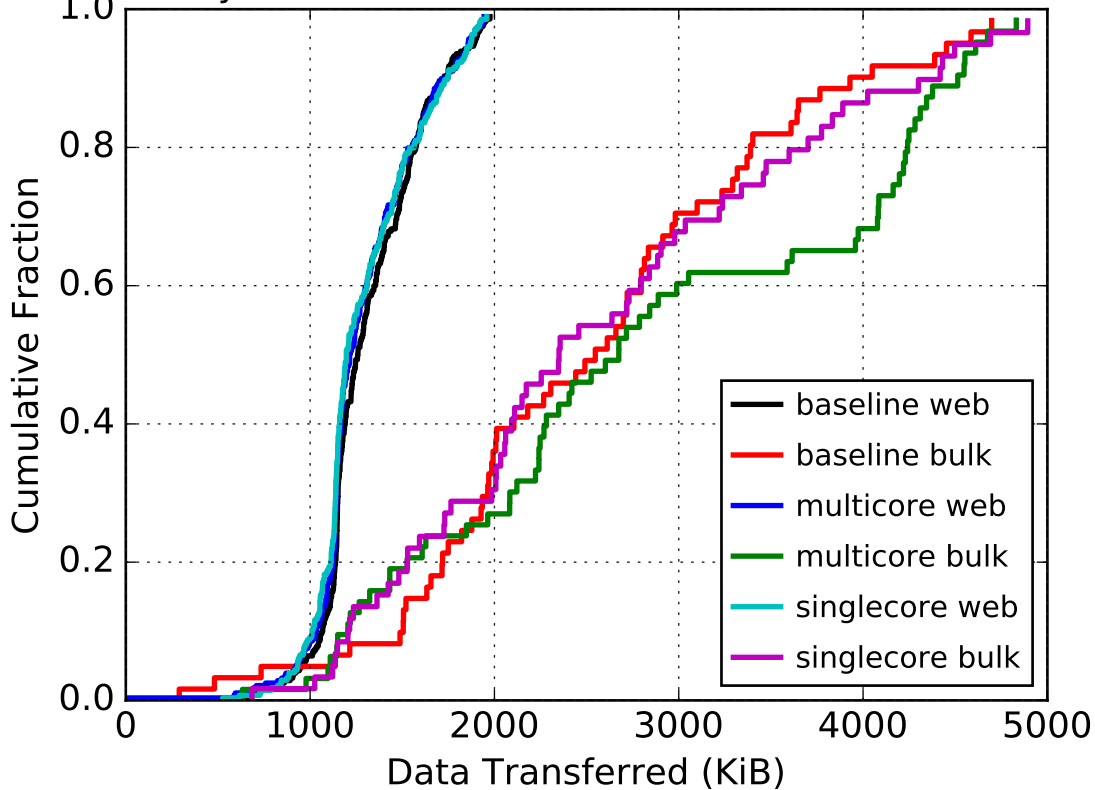


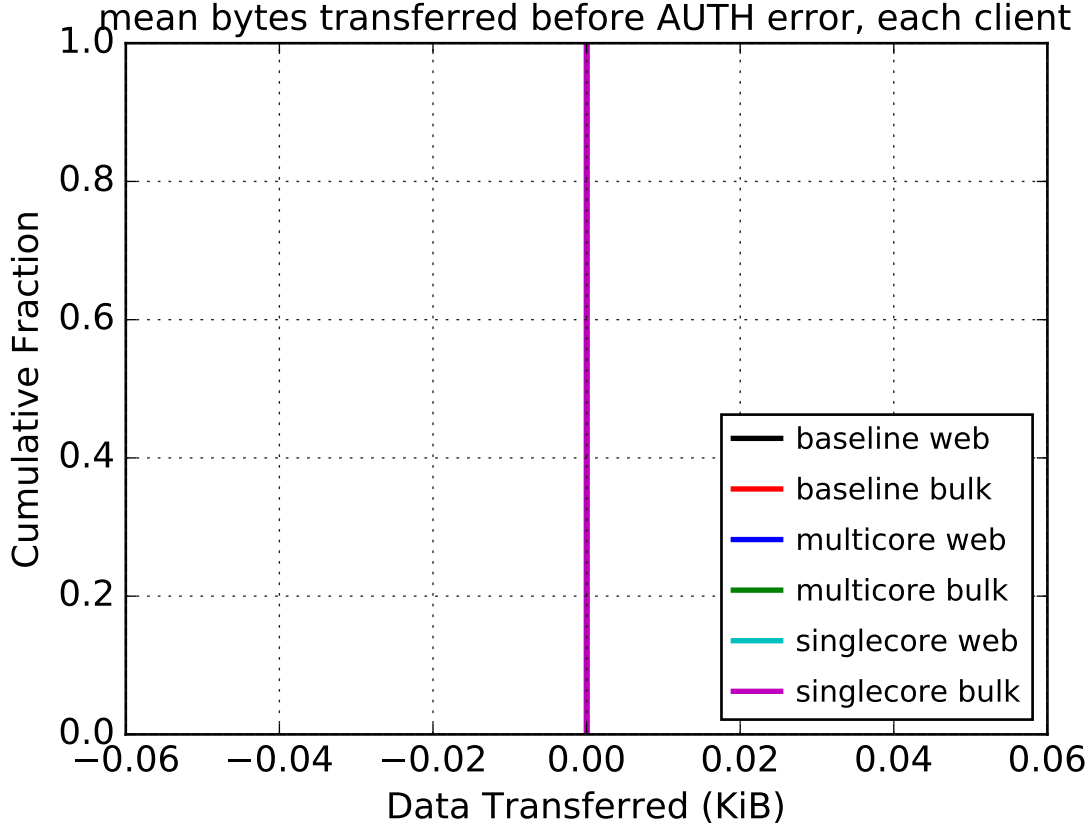


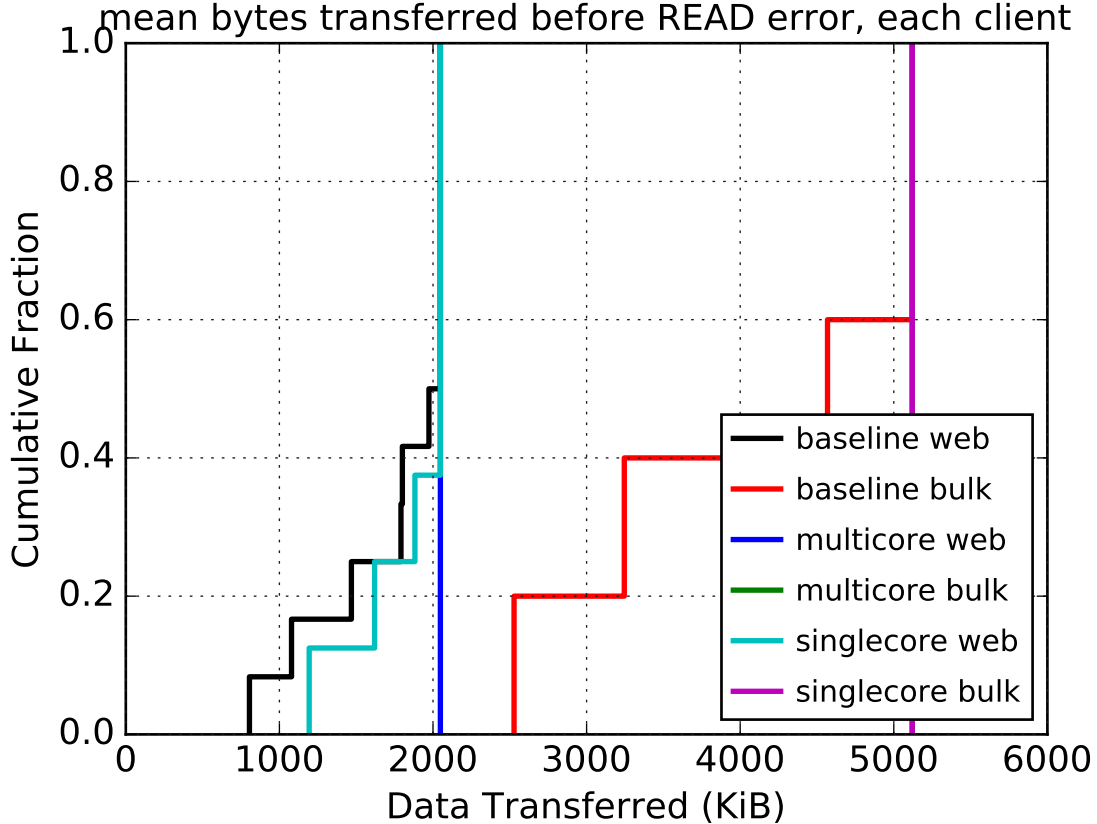
median bytes transferred before STALLOUT error, each client



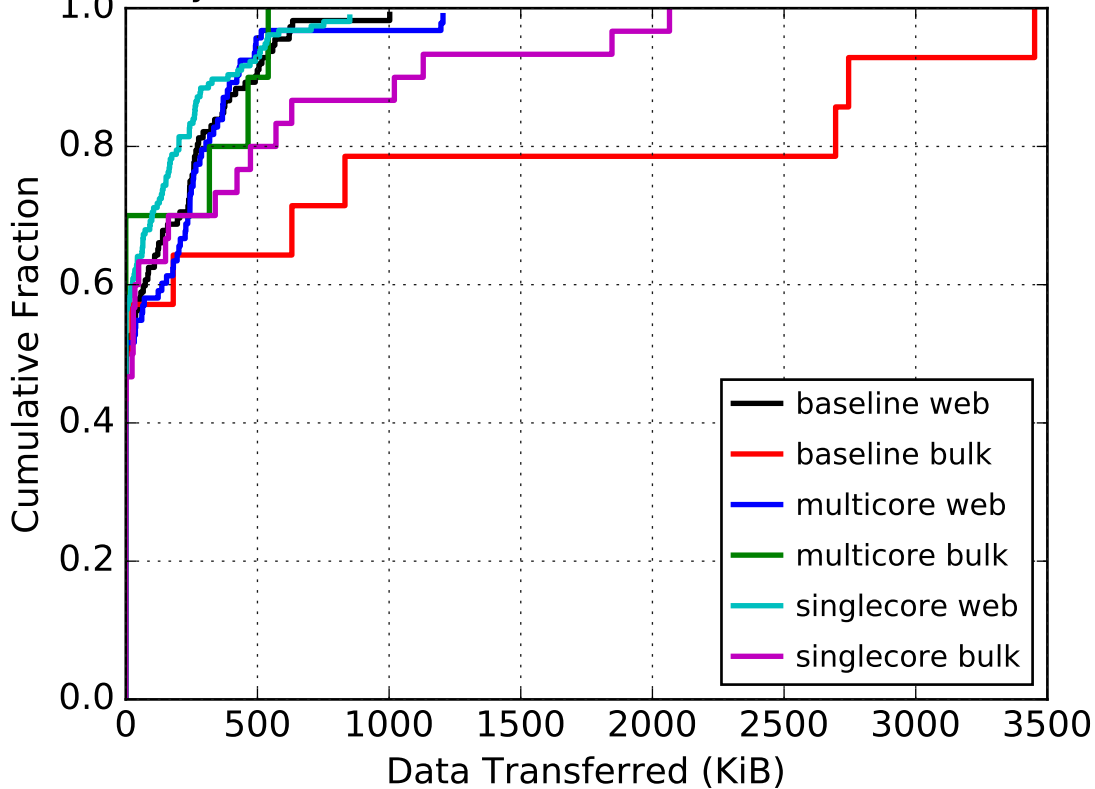
median bytes transferred before TIMEOUT error, each client



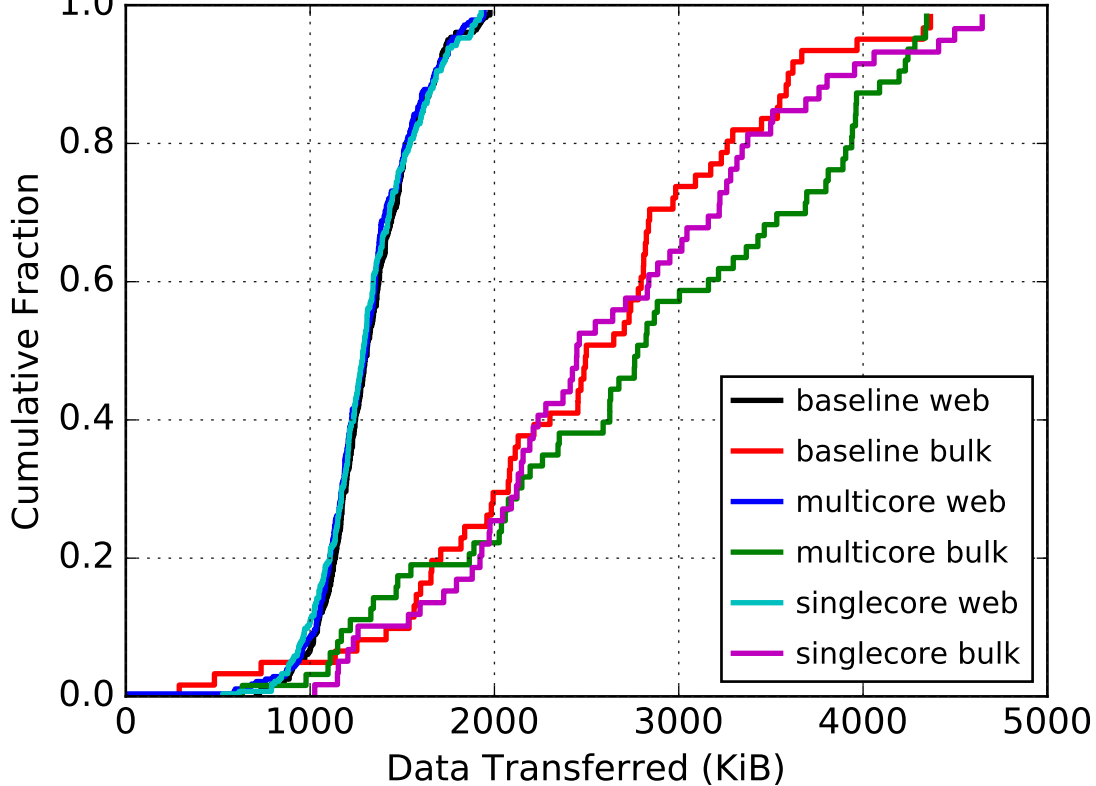




mean bytes transferred before STALLOUT error, each client

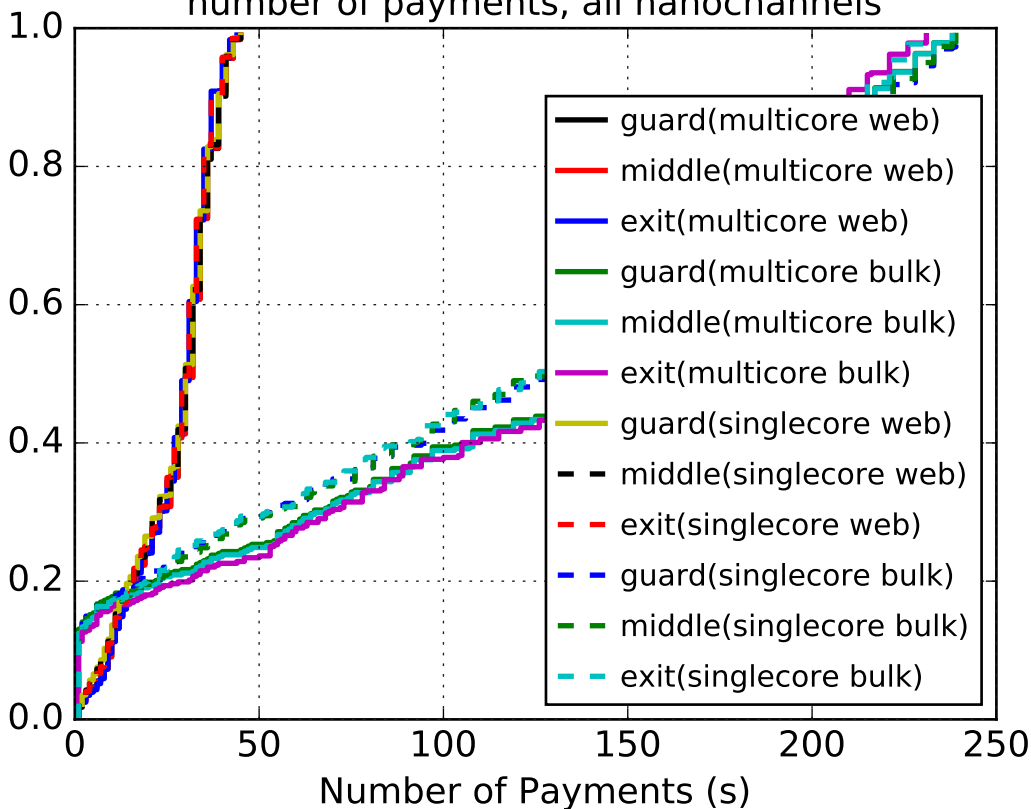


mean bytes transferred before TIMEOUT error, each client



number of payments, all nanochannels

Cumulative Fraction



total lifetime, all nanochannels

Cumulative Fraction

1.0
0.8
0.6
0.4
0.2
0.0

0

200

400

600

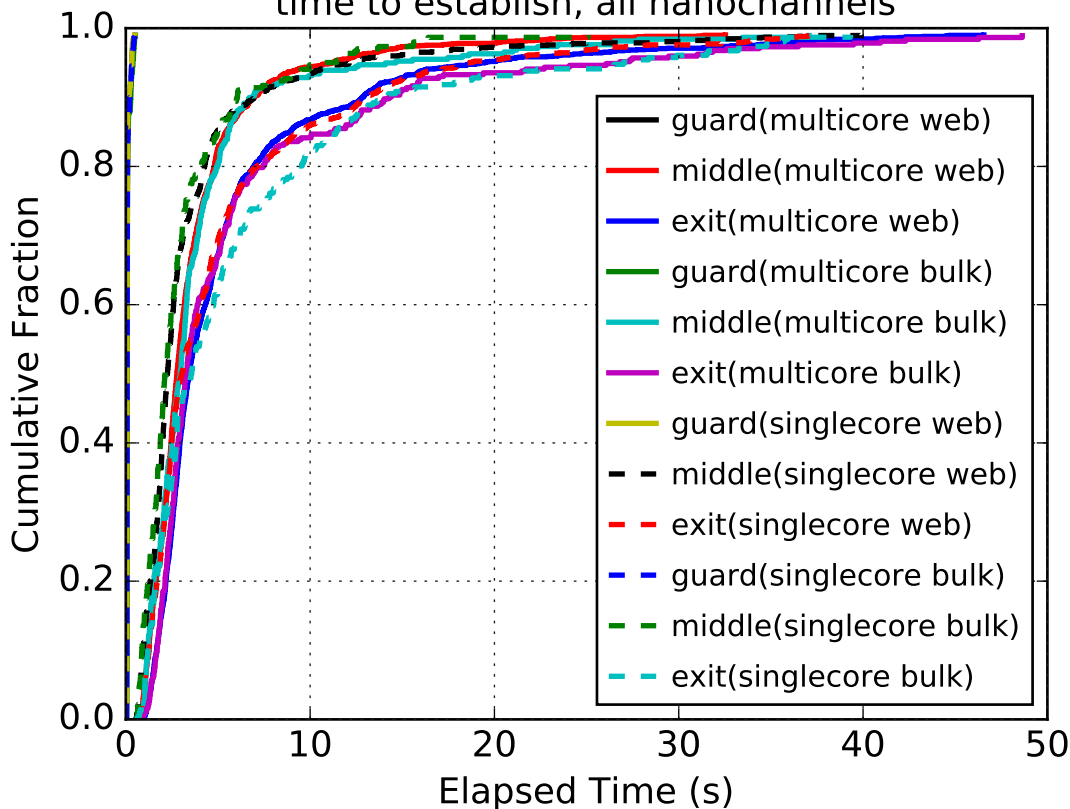
800

1000

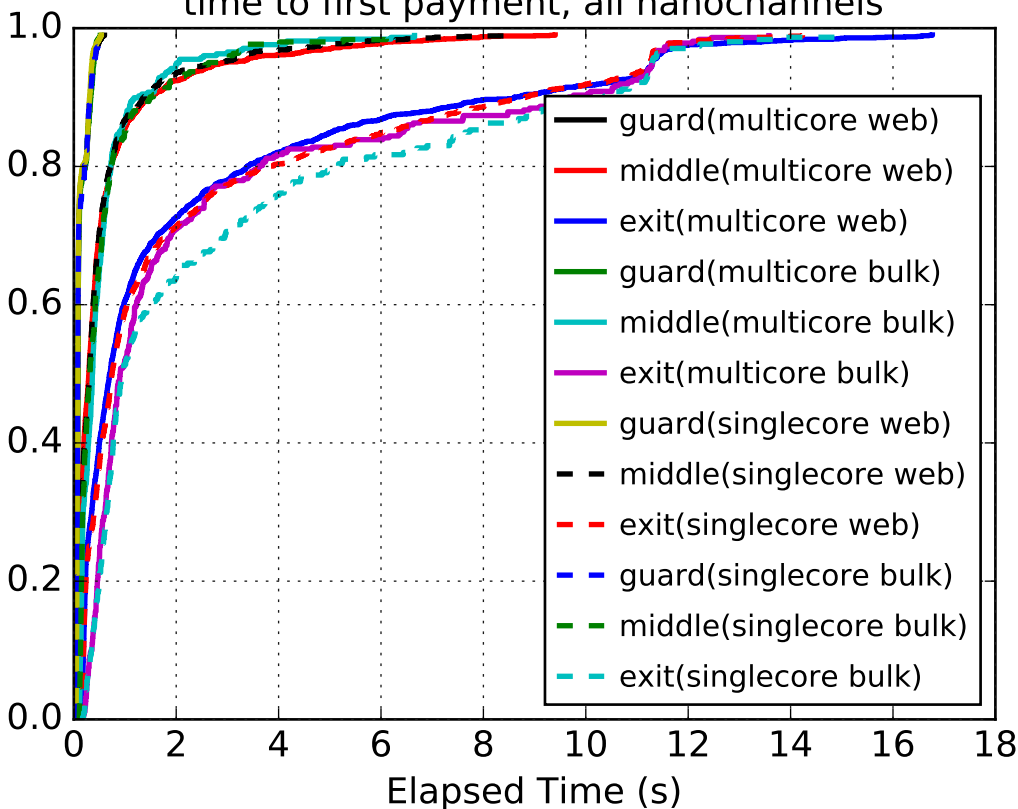
Elapsed Time (s)

- guard(multicore web)
- middle(multicore web)
- exit(multicore web)
- guard(multicore bulk)
- middle(multicore bulk)
- exit(multicore bulk)
- guard(singlecore web)
- - middle(singlecore web)
- - exit(singlecore web)
- - guard(singlecore bulk)
- - middle(singlecore bulk)
- - exit(singlecore bulk)

time to establish, all nanochannels



Elapsed Time (s)



time to close, all nanochannels

Cumulative Fraction

