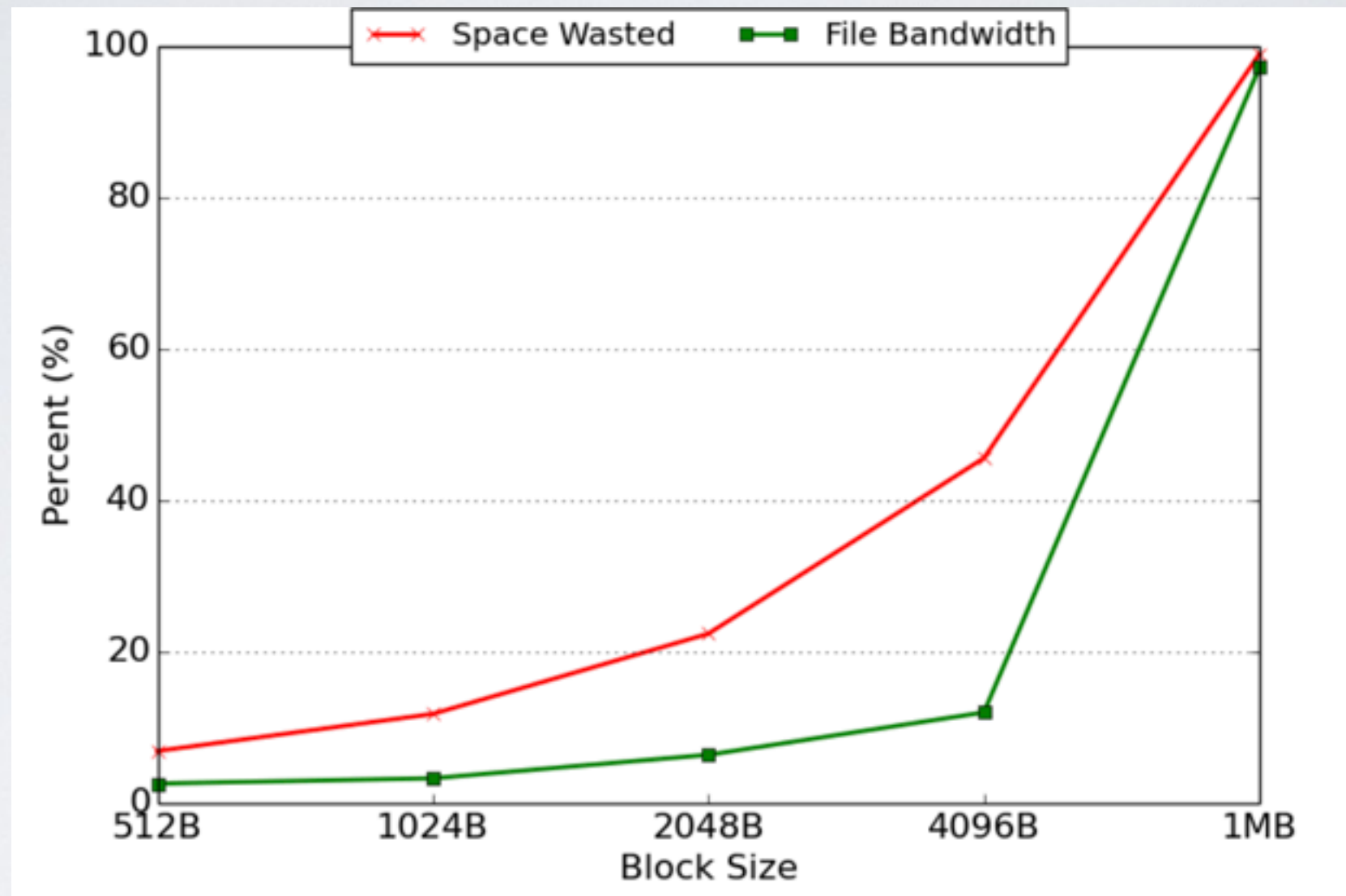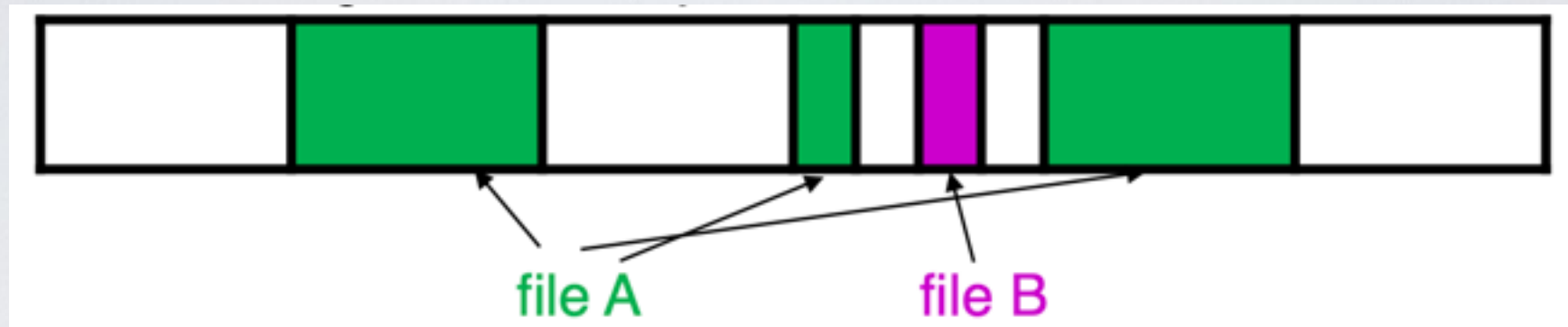# Problem 1 - blocks are too small

✓ Bigger block increases bandwidth

◉ but increases internal fragmentation as well

Solution - use fragments

BSD FFS has large block size (4096B or 8192B)

➡ Allow large blocks to be chopped into small ones called "fragments"

- Ensure fragments only used for little files or ends of files
- Fragment size specified at the time that the file system is created
- Limit number of fragments per block to 2, 4, or 8

✓ High transfer speed for larger files

✓ Low wasted space for small files or ends of files