

Operating System: Project 4

Instructed by *Wei Xu*

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Task 3

The write-back cache overrides our original `read_block()` and `write_segment()` functions with their `_through_cache()` versions. The cache occupies 4MB space with 512 cachelines, and each cacheline contains contiguous 8 blocks. Upon any cache miss, LRU policy is applied to decide to-be-deleted cachelines. When an eviction finishes, all evicted dirty cachelines are `fsync()`ed to disk.

The cache also provides `init_cache()` and `flush_cache()` functions to support file system initialization and garbage collection.