

23 Apr 2025 - Operating Systems - II

Environment variables : \$ ls

PATH = /bin ; /home ; / . . .

↓
find 'ls' from these locations

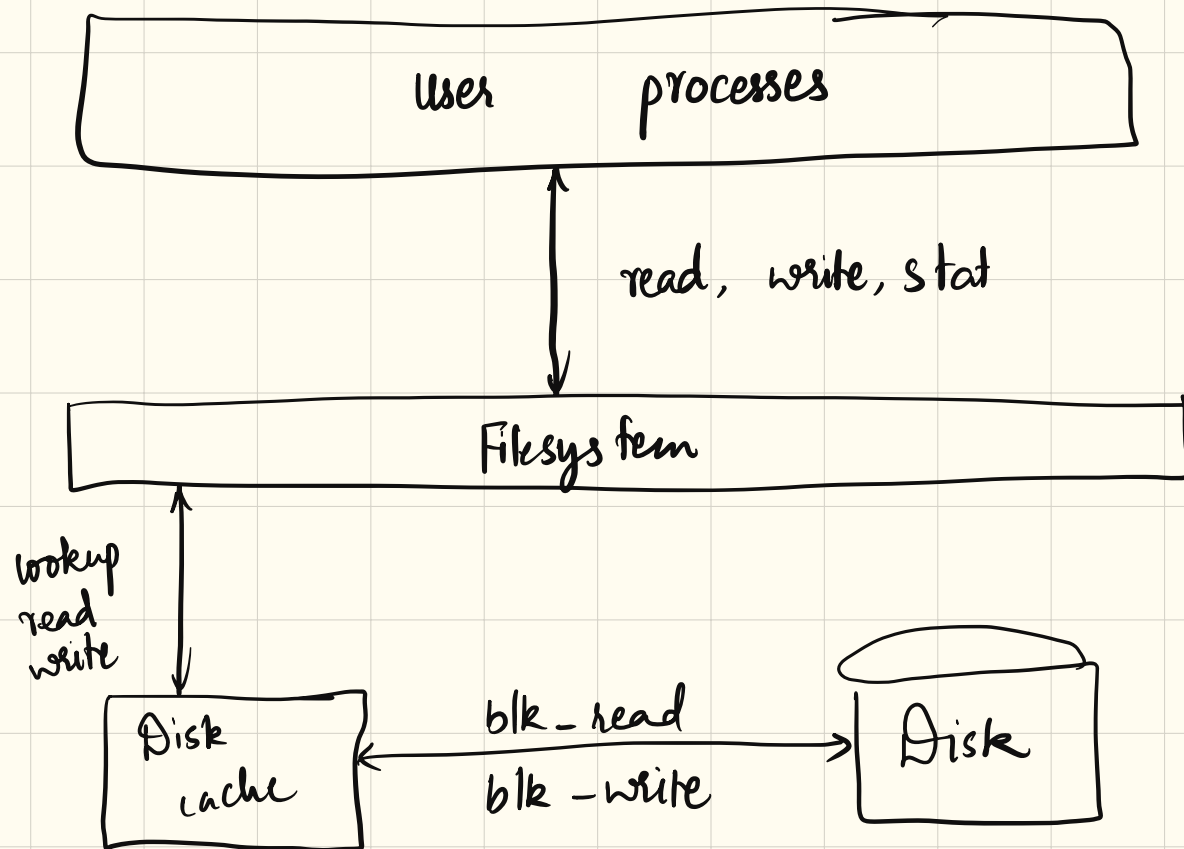
Normal shell op
Hardware cache ? ×

Software based cache — in RAM

→ Block Layer Caching

synchronous → wait until operation complete

Cached I/O



Lookup memory cache using block number as the key

Data → For data caching, block address mapping is required before using the cache

Metadata

→ works fine for metadata as they are addressed using block #

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