The Hard Disk Cache

- Core
  - Registers
- L1
- L2
- L3
- Main memory
- Flash/hard disk
- Disk cache

Capacity, access time vs. costs/Byte, bandwidth

↑ 128/713
Hard Disk Controller Read Caching

Read request may be served by the hard disk cache
Hard Disk Controller Write Caching

Flash

Disk Cache

Main Memory

Flash
Hard Disk Controller Write Caching

good for asynchronous writes
Elevator Optimization

1
2
3
4
Credits and Copyrights

© iStock.com:
mtphoto

CC:
Andreas Praefcke
http://commons.wikimedia.org/wiki/File:BMF_Paternoster.jpg
http://creativecommons.org/licenses/by/3.0/deed.en