The Hard Disk Cache

- **core**
  - Registers
- **L1**
- **L2**
- **L3**
- main memory
- flash/hard disk
  - disk cache

Costs/Byte, Bandwidth

Capacity, Access Time
Hard Disk Controller Read Caching
Hard Disk Controller Read Caching

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

Diagram showing the relationship between main memory, flash/hard disk, and disk cache.
Hard Disk Controller Write Caching

good for asynchronous writes

[Diagram showing main memory and flash/hard disk with disk cache]
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