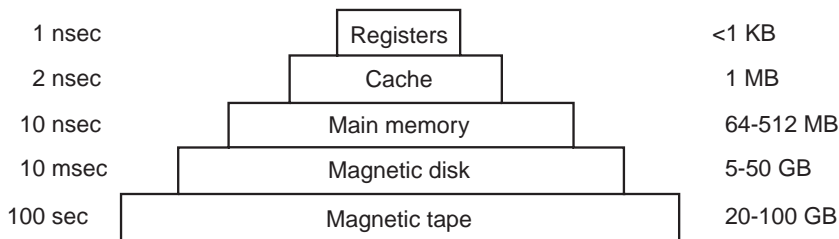# Memory Management

In a perfect world Memory is *large, fast, non-volatile*

In real world ...

Typical access time   Typical capacity

1 nsec	Registers	<1 KB
2 nsec	Cache	1 MB
10 nsec	Main memory	64-512 MB
10 msec	Magnetic disk	5-50 GB
100 sec	Magnetic tape	20-100 GB

Memory manager handles the memory hierarchy.