

Definitions

- Programs load/store to **virtual addresses**
- Actual memory uses **physical addresses**
- Virtual memory hardware is the **MMU (Memory Management Unit)**
 - Usually part of CPU and configured through privileged instructions (e.g., load bound reg)
 - Translates from virtual to physical addresses
 - Gives per-process view of memory called **address space**

Virtual Memory in a nutshell

The application does not see physical memory addresses

➔ **Memory-Management Unit** (MMU) relocates each load/store at runtime

