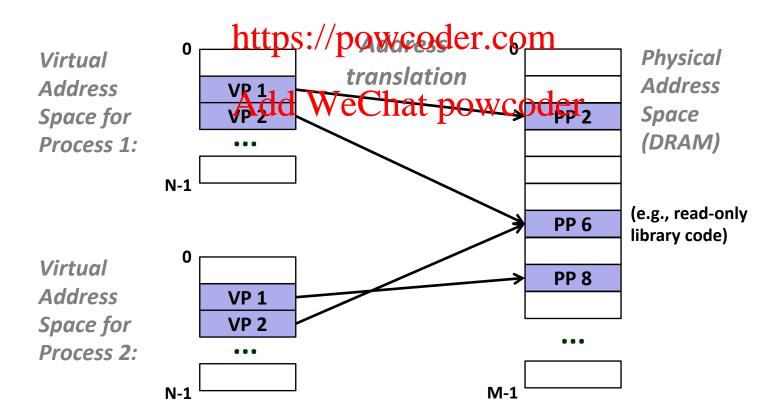
VM as a Tool for Memory Management

- Key idea: each process has its own virtual address space
 - It can view memory as a simple linear array
 - Mapping function scatters addresses through physical memory
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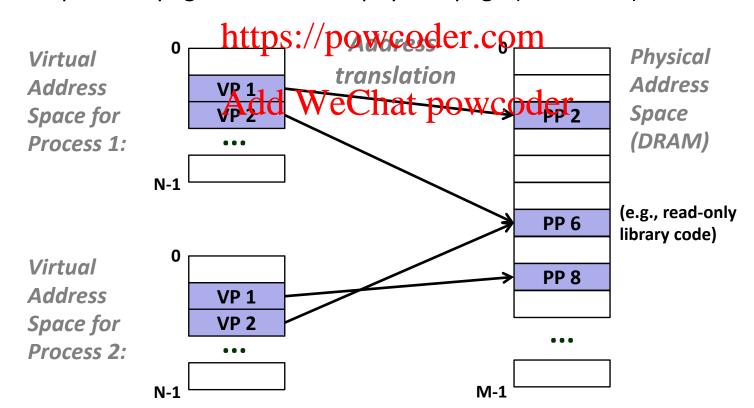


VM as a Tool for Memory Management

- **Memory allocation**
 - Each virtual page can be mapped to any physical page
 - A virtual page can be stored in different physical pages at different times
- Sharing code and data among processes

 Assignment Project Exam Help

 Map virtual pages to the same physical page (here: PP 6)



VM as a Tool for Memory Protection

- Extend PTEs with permission bits
- Page fault handler checks these before remapping
 - If violated, send process SIGSEGV (segmentation fault)

