

Page Table Entries (PTEs)

- The **Modify bit** says whether or not the page has been written (set when the write to a page occurs)
- The **Reference bit** says whether the page has been accessed (set when a read or write to a page occurs)
- The **Valid bit** says whether or not the PTE can be used (checked each time the virtual address is used)
- The **Protection bits** say what operations (read, write, execute) are allowed on page
- The **Physical page number (PPN)** determines the physical page

Page Lookup

Virtual Address

| page | offset |
|------|--------|
| 3 | 128 |

Physical Address

| page | offset |
|------|--------|
| 5 | 128 |

Page Table

| m | r | v | p | ppe |
|---|---|---|----|-----|
| | | | | |
| | | | | |
| | | | | |
| 1 | 1 | 1 | rw | 5 |

Physical Memory

