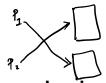
MEMORY PROTECTION IN PAGING



Protection bits can be associated along with the frame number in the page table

One protection bit can be defined to check whether the page is read only page or not.

Another bit called valid-invalid bit can be associated with the page table to check whether a page exists in process logical address space or not

Any reference to page number 3 in the page table will cause segmentation fault

The program extends only till logical address 9. What if we try to access memory location 10?

- Orawback: Rarely does a program uses all its address range. It would be a huge waste of memory if we keep a page table entry for every page in the address range
- Some systems provide hardware support in form of page-table length register(PLTR) to indicate the size of the page table
- If page number >= PLTR, segmentation fault is raised

OTHER IMPORTANT BITS ASSOCIATED WITH PAGE TABLE

- Referenced bit whether the page was accessed in the last clock cycle or not
- Oirty or modified bit whether the page has been modified or not
- Cache enables/disabled bit whether caching is enabled for the page or not

