







## Virtual Memory Issues

- what pages should be resident in main memory (MM) at any time?
  - the most used pages (in the near future)
  - different paging policies give an approximation to 'most used'
- data consistency:
  - upon a page fault (access of data in a page not currently in physical memory), a page currently in main memory usually has to be removed:
    - ◆ if simply thrown out, data may be lost
    - ◆ if always written back to disk (upon each **store**), will be too slow!
  - solution: write it back to disk, if it has been written to (made **dirty**)
    - ◆ hence the MMU must record this for each page ('Dirty bit')