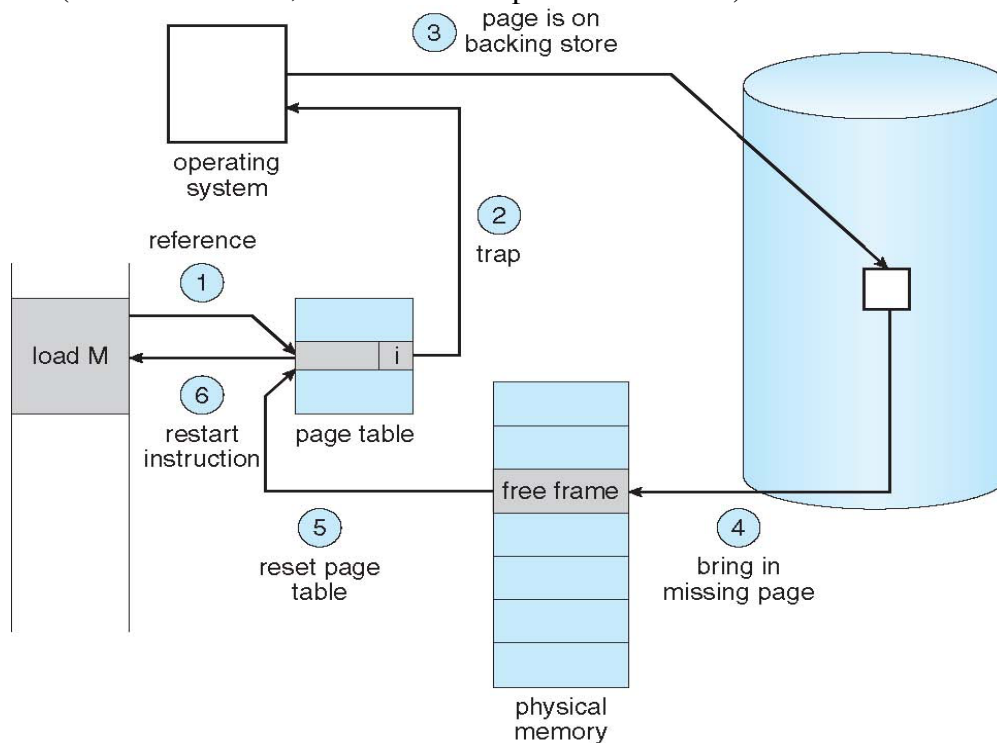


Stages in Page Fault

(order is incorrect, number each step in correct order)



- Trap to the operating system
- Restore the user registers, process state, and new page table, and then resume the interrupted instruction
- Determine that the interrupt was from the disk
- While waiting, allocate the CPU to some other user
- Check that the page reference was legal and determine the location of the page on the disk
- Wait for the CPU to be allocated to this process again
- Issue a read from the disk to a free frame:
 - Wait in a queue for this device until the read request is serviced
 - Wait for the device seek and/or latency time
 - Begin the transfer of the page to a free frame
- Save the user registers and process state
- Determine that the interrupt was a page fault
- Receive an interrupt from the disk I/O subsystem (I/O completed)
- Save the registers and process state for the other user
- Correct the page table and other tables to show page is now in memory