

CENG 2034

Operating Systems

lab 8

https://github.com/caesarsalad/ceng2034_os_labs



Final Project

-You have a chunk of files (mixed png, jpeg, txt). But these files have no extension.

- Categorize the files according to their types. (copy or move each of them to different folders such as jpegFolder, pngFolder, txtFolder...)
- Use concurrency methodology to do this job more faster.
- Do a benchmark to show the difference between single thread and multi thread.



Memory Management in Linux

Paging

Virtual address -> physical address

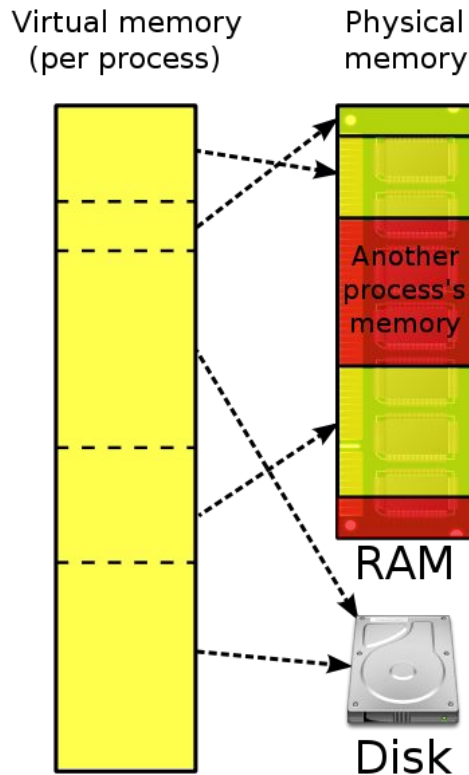
MMU (logical -> physical)

TLB (Translation Lookaside Buffer)

- What is difference between buffer and cache?

HugePages (4KB -> 4MB)

Swap, Swappiness(0-100), Swap file



Some Sources

- <https://people.freebsd.org/~lstewart/articles/cpumemory.pdf>
- <https://www.tldp.org/LDP/tlk/mm/memory.html>
- <https://www.youtube.com/watch?v=7aONIVSXiJ8>

