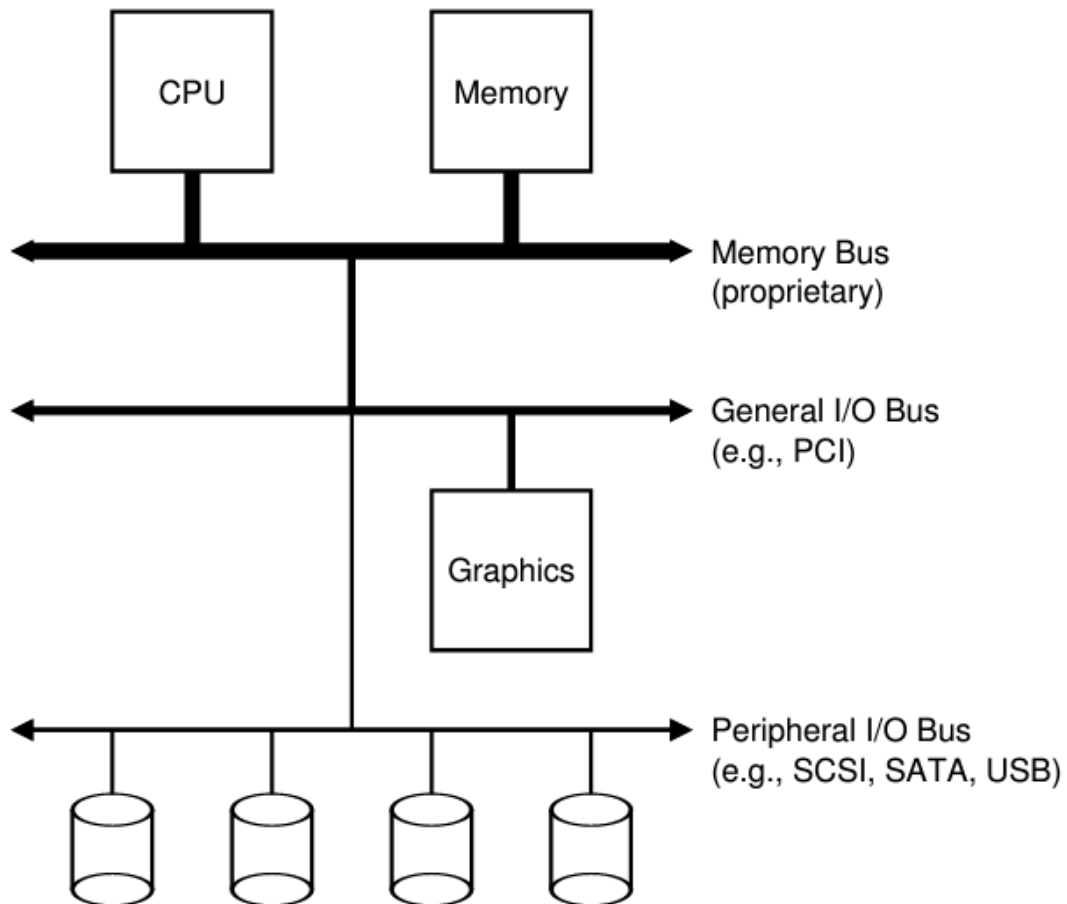


## Final Assignment

*Deadline: July 5th, 2024.*

*Submit your assignment in the form of a .zip / .rar file which contains C files as well as screenshots of commands used.*

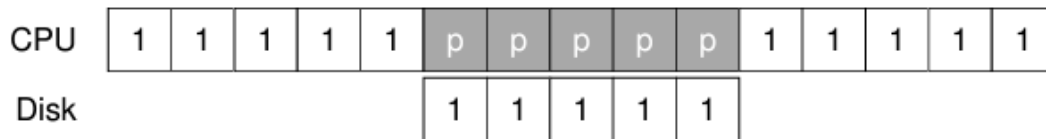
01. Explain the following diagram



02. What are SATA ports?

03. What are PCI ports?

04. The following communication between the CPU and the disk is performed without interrupts. Explain how this communication works.



05. Create a file with the name “hello.txt” by using open() and creat() system calls. Submit the code and explain the difference between the two system calls.

06. Create a file with the name “permission.txt”.

- Display the information about the file
- Change the permissions for the file so the administrator can only read and write the file.
- Create an new link to that file
- Display the inode numbers for the two links (check if they are the same or not, explain).

07. How can we find the steps an operating system takes in order to execute a specific command? Find which steps are taken when we create a folder with the name of “AssignmentFolder”.

08. Explain the difference between an absolute and a relative directory path.