CSC 369 Midterm 1 Solution

1. a) <u>Notes</u>

• Previliged Instructions

- Is the instruction that can run only in **kernel mode**
- Attempt at execution in **user mode** \rightarrow treated as an illegal operation & will not run.

• Trap

- Is a special hardware instruction
- Is a type of synchronous interrupt ^[1]
- Is caused by an exceptional condition [1]
- Usually results in a switch to **kernel mode** \to Operating system performs action \to Returns control to original process

• Trap Instruction

- Is executed when a user wants to invoke a service from the operating system (i.e. reading hard drive) in user mode
- User Mode

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• Kernel Mode

References

a) Wikipedia, Trap (computing), link