CSCI 4417/5417, Quiz 1: Introduction

December 9, 2004

This quiz has 8 questions for a total of 18 points.

1. (3 points) List one pro and one con of OS vendor-provided certifications, and provide an example of a program.
   1. 
   2. 
   3. 

2. (1 point) In a layered operating system, what is the basic purpose of the various layers? In other words, why bother with layers?

3. (1 point) What is the purpose of the BIOS with respect to booting? In other words, why not jump straight from POST to MBR?

4. (1 point) What is the purpose of a boot loader?

5. (5 points) Draw and label appropriately the internal parts of a disk. You must label at least 5 parts.
6. (1 point) Is it always necessary to partition a disk before using it? Explain.

7. (2 points) After inserting a floppy, Zip disk, or CD into a Unix system, what must typically be done before accessing files on that disk?

8. (4 points) List four layers of abstraction in dealing with disks and filesystems, and label with the corresponding Linux and Windows tools to manage the system at that layer.

   1.
   2.
   3.
   4.