

CE450 – Unit 1 Homework

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1. What are the computer types in terms of computer application?

- There are 4 types
- 1) Personal computers : for general purposes, use
 - 2) Server computers : for hosting, commercial use
 - 3) Super computers : for high end or high demanding computing needs
 - 4) Embedded computers : for embedding into other devices that needs computing power

2. What are the new computer styles after the PostPC era?

- (a) Personal Mobile Device (PMD) : phone, tablet, wearable devices
- (b) Cloud Computing : on demand & price per usage computing power

3. What are the functions of compiler and operating system?

- Compiler: translates high level language code to machine code.
- Operating system:
 - Handles input / output
 - Manages memory & storage
 - Schedules tasks & shared resources.

4. What are the computer hardware components and computer functions?

- User interface devices: for user input / output such as monitor, keyboard, mouse
- I/O Storage devices: for storing & retrieving data, such as hard disk, CD/DVD, flash
- Network adapters: for communicating with other computers.
- Processor: central computing power.
- Memory: cache main memory allows processor to load instructions from application in storage for processing

5. What are the factors will affect the program performance?

- Algorithm: determines number of operations executed.
- Programming language, compiler, architecture: determines number of machine instructions executed per operation.
- Processor & memory: determines how fast the instructions are executed.
- I/O system: determines how fast I/O operations are executed.