ASSIGNMENT 1: Know Your System!

Due 1:15 p.m. Friday, Sep. 6

Knowing the organization and capability of your computer system will dramatically change the way you use it. This knowledge is absolutely necessary in writing efficient code, exploiting the underlying hardware. Using your system manual or on-line resources, gather the essential information about your system outlined below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| System brand (e.g. MacBook Pro) |  | | | |
| Type (e.g. desktop, laptop) |  | | | |
| **Processor** |  | | | |
| Brand/model |  | | | |
| Speed in GHz |  | | | |
| Number of cores |  | | | |
| Cache L1 | Present? |  | Size |  |
| L2 | Present? |  | Size |  |
| L3 | Present? |  | Size |  |
| Support hyper-threading? |  | | | |
| Instruction set (32-bit or 64-bit) |  | | | |
| **Motherboard (System board)** |  | | | |
| I/O core chipset |  | | | |
| Memory type supported |  | | | |
| Max memory supported |  | | | |
| Number of memory slots |  | | | |
| LAN (network) type |  | | | |
| Audio chipset |  | | | |
| I/O ports implemented |  | | | |
| Type of expansion slots |  | | | |
| Support RAID? |  | | | |
| **Memory** |  | | | |
| Installed memory size |  | | | |
| Memory speed |  | | | |
| Memory type supported |  | | | |
| **Graphics** |  | | | |
| GPU type |  | | | |
| Interface type |  | | | |
| Memory size |  | | | |
| **Secondary Storage** |  | | | |
| Hard drive capacity |  | | | |
| Hard drive speed |  | | | |
| SSD |  | | | |
| Optical drive (if any) |  | | | |
| Optical drive speed |  | | | |
| **Operating System** |  | | | |
| Brand (e.g., Windows,  MacOS, Linux, etc.) |  | | | |
| Version |  | | | |
| 32- or 64-bit? |  | | | |