

Computer Systems Organization

CS 1428 Foundations of Computer Science

Objectives

In this section, you will:

- Review binary data representation
- Put all the pieces together – the Von Neumann architecture
 - Why getting more memory will help your computer run faster
- Learn how C++ programs are run by the computer

Software

- Programs are stored in a binary format that is specific to the processor (or virtual machine, in the case of Java)
- High-level language programs must be “compiled” into machine language that is targeted toward a specific processor or operating system