

Introduction: Hello, World Below

Tom Kelliher, CS 220

From Tetris to Nand, Slides

- Slide 5: Name two purposes of an abstract interface.
- Slide 7: What is the purpose of a library (OS method)?
Describe an example of a library.
- Slide 9: Is a virtual machine restricted to a single high-level language?
Relate this model to a Linux system with C, C++, FORTRAN, and Ada compilers.
- Slide 11: The virtual machine uses what architecture?
What is the pre-condition for executing an `add` instruction?
- Slide 14: Distinguish the location of a variable from its value.
In the assignment `sp = sp + 1`, which is the value reference and which is the location reference?
Relate array usage to the notions of location and value.
- Slide 15: Distinguish machine language from assembly language.
If I open a machine language file in an editor, what will I see?
- Slide 17: What part of a processor parses instructions?
What part of a processor executes instructions?
- Slide 18: Distinguish architecture from organization.
Describe three aspects of a processor's architecture.

Describe three aspects of a processor's organization.

- Slide 20: Distinguish between combinational and sequential logic.
- Slide 21: What is the difference between OR and XOR?
- Slide 23: Why do we say that the NAND gate is complete?
- No slide: Could we treat the virtual machine language as a machine language and build the virtual machine from gates?