

CS 331 Programming Languages, Spring 2009
Quiz 1 Solutions

Quiz 1 was given in class on Monday, January 26, 2009.

1. [2.5 pts] What is the “Von Neumann bottleneck”?

The *Von Neumann bottleneck* is the connection between a computer’s processor and its memory.

The name comes from the fact that the speed of this connection is an important limiting factor in the performance of a Von Neumann architecture machine.

2. [2.5 pts] Give an example of a programming-language implementation method that is a hybrid between pure compilation and pure interpretation.

One example would be Java compilation to Java byte code, followed by interpretation by the Java Virtual Machine.