16.317: Microprocessor Systems Design I

Fall 2012

Lecture 18: Key Questions
October 19, 2012

1. Describe the issues involved in accessing data in assembly, including the two general factors the compiler must account for.

2. How does a program handle statically allocated data (data allocated at compile time)?

3. How does a program handle data that are dynamically allocated when a function is called?

4. Describe the structure of a typical x86 stack frame.

5. Describe how array accesses are handled.

6. Describe how conditional statements are handled.

7. Describe how loops are handled.