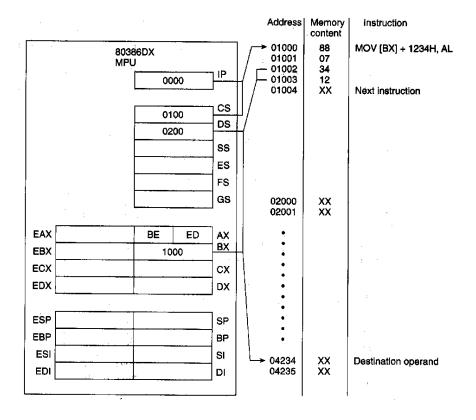
## 16.317: Microprocessor Systems Design I

Spring 2012

Lecture 7: Key Questions February 6, 2012

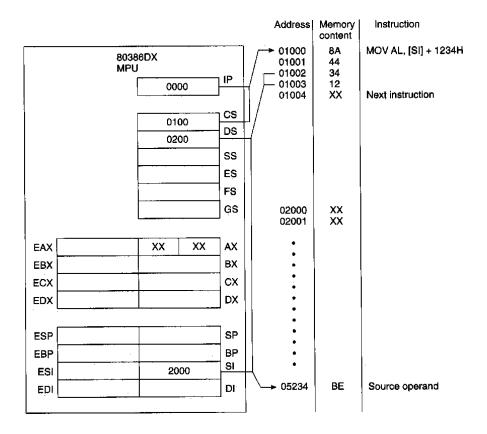
1. Explain based addressing mode. What is the benefit of this addressing mode?

Update the figure below to show the result of the instruction MOV [BX] + 1234H, AL



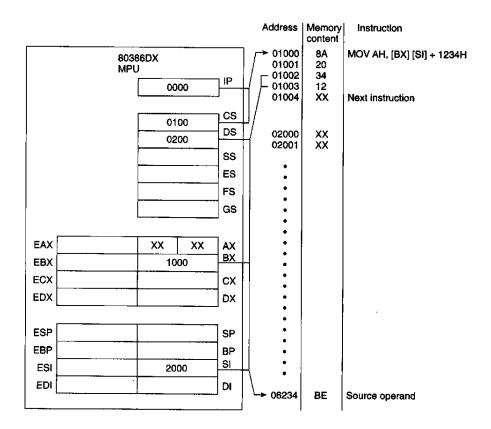
2. Explain indexed addressing mode. What is the benefit of this addressing mode? What are the key differences between indexed and based addressing mode?

Update the figure below to show the result of the instruction MOV AL,[SI] +1234H



3. Explain based-indexed addressing mode. What is the benefit of this addressing mode?

Update the figure below to show the result of the instruction MOV AH,[BX][SI] +1234H



4. Explain the benefits and disadvantages of having variable length instructions.

5. What information is generally encoded in an instruction?