



CHAPTER OVERVIEW

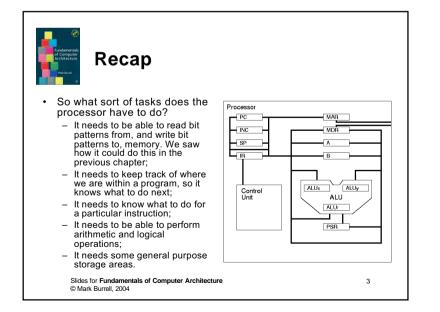
- This chapter includes:
 - Assigning tasks to individual processor components;

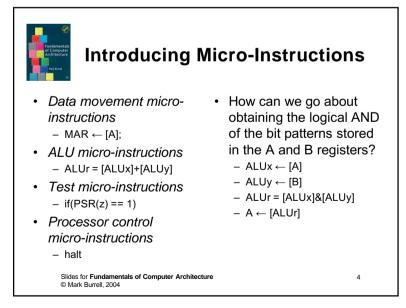
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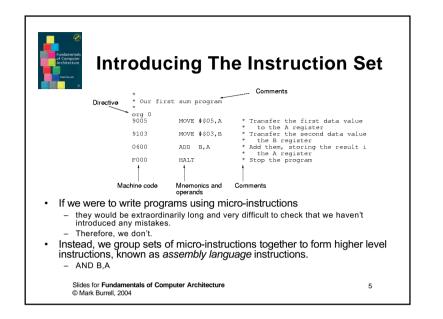
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- Micro-instructions;
- Instruction sets;
- The format of a program;
- The fetch-execute cycle;
- Executing programs in JASPer.

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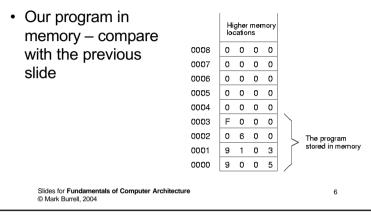


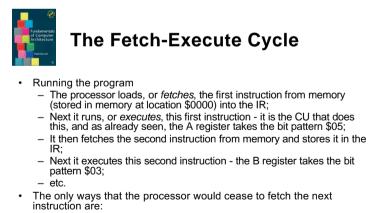






Our First Program

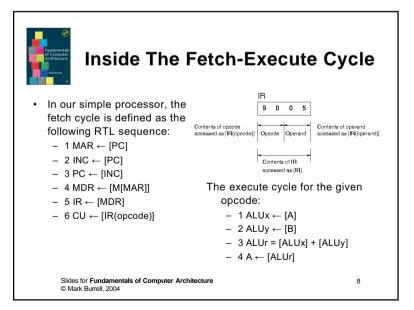


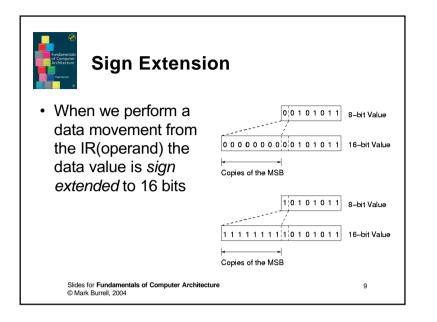


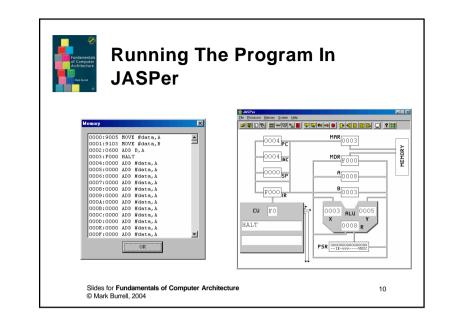
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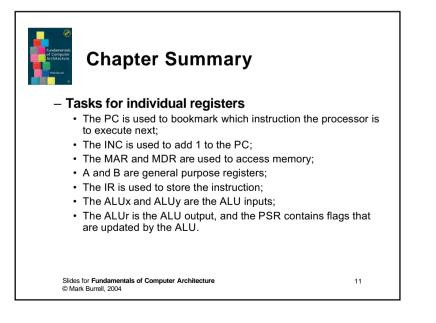
- If the power to the processor is switched off;
- The halt microcode is executed;
- The processor reset button is pressed.

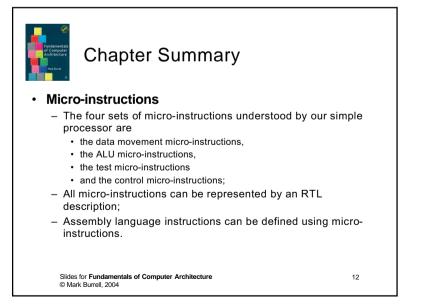
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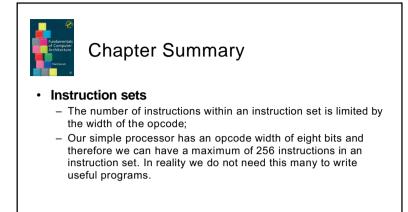












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Chapter Summary

• The format of a program

- The processor executes the machine codes of a program;
- Additionally we add mnemonics, operands and comments so that we can understand what the individual machine codes are to do.
- The fetch-execute cycle
 - The processor runs programs by using the fetch-execute cycle;
 - Each instruction in memory is in turn, fetched, placed in the IR, and then executed by the CU.

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