

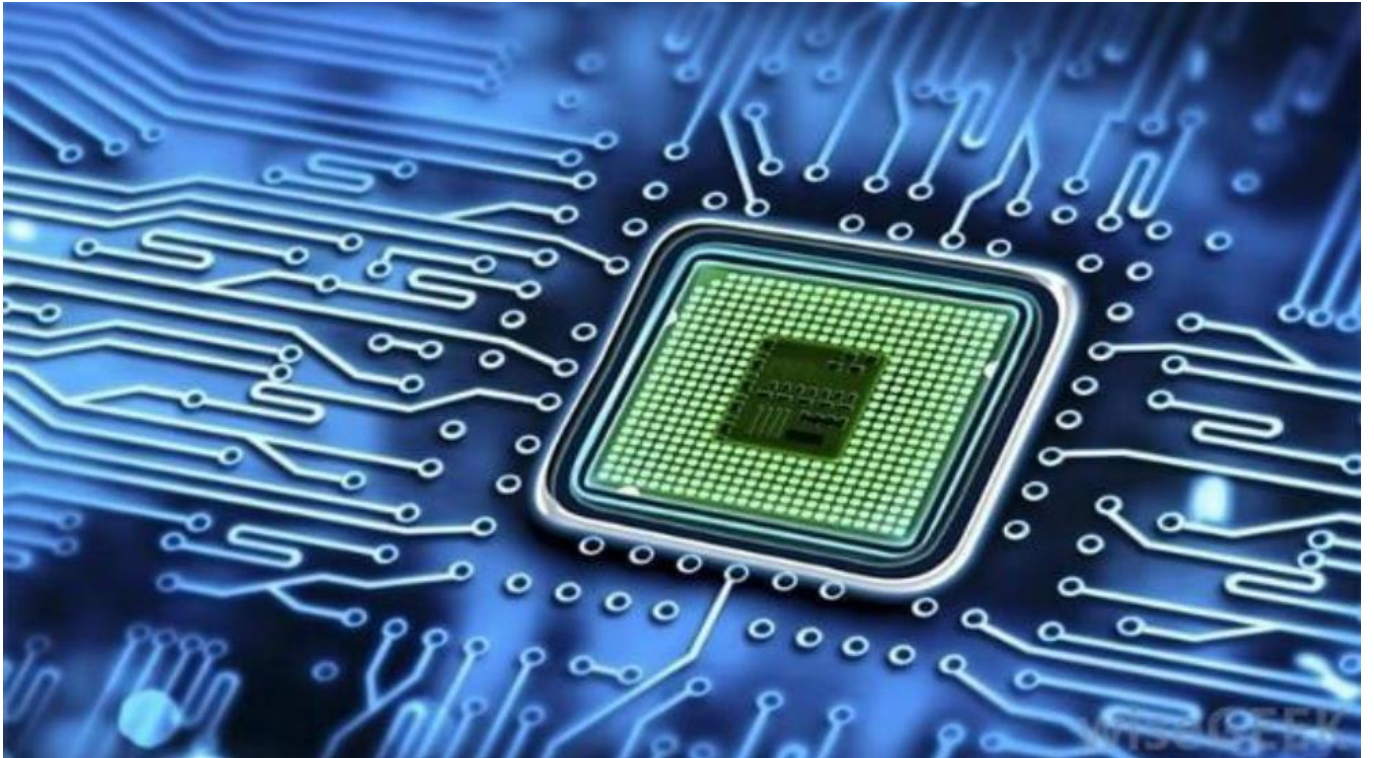


جامعة الفرات الاوسط التقنية

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الكلية التقنية الهندسية /نجف
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مختبر معالج دقيق



Exp. No: 10

Exp. Name: Sum Block of Data

Experiment No.:- 10

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AIM: To study the operation of conditional and unconditional jump instructions.

Theory:

This group of instructions alters the sequence of program execution either conditionally or unconditionally.

Jump: Conditional jumps are an important aspect of the decision-making process in the programming. These instructions test for a certain conditions (e.g., Zero or Carry flag) and alter the program sequence when the condition is met. In addition, the instruction set includes an instruction called *unconditional jump*.

jumps (JC , JNC , JZ , JNZ , JP , JM , JPE , JPO).

Algorithm:

- 1- Start the program by loading data (34,A0, 8C, 22,45,55)H
In memory location start from 2000H.
- 2- Write assembly language to add this data and store the result in the memory location 2100H and 2101H .
- 3- Re write the program by machine language start load 2200H.
- 4- Show the content of memory location 2100 to 2101.

Discussion: