

Introduction to Computer System Organization

SZU Review

Chapter1

1. 2 Concepts

- ①. abstract concept
- ②. relationship between hardware and software

2. 2 important ideas

(1). 通用计算的思想,基于对复杂问题的分解-->转化为在硬件上的基本操作

(2). 从问题到电子运转的层次结构:

Quesiton-->Algorithm-->Programming Language-->(Compiling)-->Machine Language

(ISA)-->microstructure-->circuit-->device

comments:

1. ISA

e.g. x86,ARM

2. microstructure

e.g. Intel,MD(x86) , HUAWEI(ARM)

3. 上述层次结构图, 从左至右, 都是“一对多”的关系。