

计算机专业英语-备课笔记

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考查：给出若干计算机专业英文资料，翻译中文，难度适中；

成绩=平时成绩×50%+考查×50%

Chapter 1 Hardware

Unit 1.1 Computer Hardware

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词汇与词组

1. Computer [kəm'pjʊ:tə(r)] 计算机,电脑;计算者

词根: put =think,表示"认为,思考"

compute[n.&v.计算,估计]+er 表名词→n.计算机,电脑;计算者

2. Hardware ['hɑ:dweə(r)]: 计算机硬件(复合名词)

词根: hard 表示"硬,艰难"

In computer systems, **hardware** refers to the machines themselves as opposed to the programs which tell the machines what to do.

合成词也称复合词，顾名思义，就是由两个或两个以上的词合在一起构成的词，可分别用做形容词或副词。

在英语日常词汇中，有许许多多的名词是由两个或两个以上的词共同构成的，例如：

- 1) earthworm 蚯蚓;
- 2) earthquake 地震;
- 3) shorthand(速记);
- 4) double-dealer (言行不一的人);
- 5) break-water(防波堤);
- 6) pick-pocket 扒手;
- 7) pickup 皮卡，小货车;
- 8) sun-bathing 日光浴;
- 9) get-together 集会;
- 10) break-through 突破;
- 11) cross-roads 十字路口;
- 12) go-between 媒人，中间人;
- 13) by-product 副产品;

- 14) touch-me-not 含羞草;
- 15) takeaway(外卖);
- 16) make-up(化妆品);
- 17) look-on(旁观者);
- 18) lookout(哨所);
- 19) software 软件;
- 20) hardware 硬件;
- 21) hardboard 硬盘;
- 22) keyboard 键盘;
- 23) website 网站;
- 24) network 网络;
- 25) homesick 思乡;
- 26) breakthrough 突破;
- 27) take-off 起飞;
- 28) sightseeing 观光;
- 29) right-wing 右翼;
- 30) laptop 笔记本电脑, (lap: 膝)
- 31) palmtop 掌上电脑

3. Circuitry [ˈsə:kɪtri]: 电路, 线路; 电路图;

circuit: 可数名词

An electrical circuit is a complete route which an electric current can flow around.

circuitry: 不可数名词

a **system** or **group** of electric circuits

4. as distinguished from : rather than; and not

Native memory is the memory available to the runtime process, **as distinguished from** the Java heap memory that a Java application uses.

本机内存是可用于运行时进程的内存, 它与 Java 应用程序使用的 java 堆内存不同。

as: used for saying that something is considered in a particular way

This definition as distinguished from the second one.
这个定义跟第二个比较起来是有区别的。

as distinct from: 有别于

Astronomy, as distinct from astrology, is an exact science.
天文学是一门严谨的科学，与占星术完全不同。

5. Execute [ˈeksɪkju:t]: 执行；处死，处决；履行；完成
有时也可用 run 表示进程的执行

6. Comparison [kəmˈpærɪsn]: 比较，对照；
by/in comparison

: when compared with another : when looked at or thought about in relation to someone or something else

Yesterday's weather was very cold. Today's weather is mild([maɪld],温暖的) **by comparison**.

—often + with

He's a well-behaved child **in comparison with** his brother.

7. Readily [ˈredɪli]: 迅速地；容易地；轻松地
without much difficulty;

I don't readily make friends.
我不轻易交友。

8. **if ever** 如果有过的话

He **hardly ever** (= **almost never**) washes the dishes and he rarely, **if ever**, (= **probably never**) does any cleaning.

Web auctions are similar to traditional auctions except buyers and sellers rarely, **if ever**, meet face to face.

9. **read-only memory(ROM)** 只读存储器

Read-only memory (ROM) is a type of storage medium that permanently stores data on personal computers (PCs) and other electronic devices.

Because ROM is read-only, it cannot be changed; it is permanent(永久的) and non-volatile(非易失的), meaning it also holds its memory even when power is removed. By contrast, random access memory (RAM) is volatile; it is lost when power is removed.

memory (记忆): 希腊神话中的记忆女神莫涅莫绪涅

莫涅莫绪涅 (Mnemosyne) 是希腊神话中的记忆女神。她是天神乌拉诺斯和大地女神盖亚的女儿，十二泰坦神之一。她是宙斯的情人，和宙斯一起生了九个缪斯女神。她通常被描绘成一个支着下巴沉思的女子；有时她在画笔下表现为一个接近成年的女性，发饰多珍珠和宝石，用右手的两个前指持着耳垂。（是不是有个相关的日本动漫？）

memory: ['mem(ə)rɪ]n.记忆，记忆力

remember: [rɪ'membə]v.记得，记起

memo: ['meməʊ]n.备忘录

memoir: ['memwɑ:] n.回忆录, 自传

memorial: [mə'mɔ:riəl]adj.纪念的, 记忆的, 追悼的 n.纪念碑, 纪念馆, 纪念仪式, 纪念物

commemorate: [kə'meməreɪt]vt.庆祝, 纪念, 成为……的纪念

amnesty: ['æmni:stɪ]n.大赦, 特赦 vt.赦免。

记: a 否定+mnes 记忆+ty 名词后缀→不再记得, 既往不咎→赦免

10. embedded system

是指嵌入式系统, 是以应用为中心, 以计算机技术为基础, 并且软硬件可裁剪, 适用于应用系统对功能、可靠性、成本、体积、功耗有严格要求的专用计算机系统。

Embedded operating system: 嵌入式操作系统 Also known as a **real-time operating system (RTOS)**.

Mobile operating systems, also known as **mobile OS**, are a type of embedded operating system. While there are numerous mobile operating systems, some of the best known are **Android**, **iOS**, and **Windows Phone**.

11. Automobile /'ɔ:təməbi:l/汽车

auto-自己 + -mob-移动 + -ile 名词词尾,物

12. microwave oven 微波炉

Microwave communication uses high-frequency radio waves. It is sometimes referred to as line-of-sight(视线) communication because microwaves can only travel in a straight line. Because the waves cannot bend with the curvature of the earth, they can be transmitted only over relatively short distances. Thus, microwave is a good medium for sending data between buildings in a city or on a large college campus. For longer distances, the waves must be relayed by means of microwave stations with microwave dishes(盘) or antennas(天线).



Relay 中继，接力，转播（区别于 rely 依赖）

re-反复,再 + -lay(= -lax-)松弛,放松

13. Electrocardiograph /ɪˌlektərəʊ'kɑ:dɪɒgrɑ:f/心电图(仪)

An instrument for recording the changes of electrical potential occurring during the heartbeat used especially in diagnosing abnormalities of heart action.

cardio-- 又作 cardi-- 【医】心脏：a cardiograph 心电图仪，心动描记器

14. Compact [kəm'pækt]: 紧密的

词根: pact =fastened,表示"包裹;紧的;结合"
com 全部+pact 压紧→全部压紧→紧密的

15. **Disc [dɪsk]: 圆盘、唱片、磁盘**

A **disc** is a record that you play on a record player.

例句:

This disc includes the piano sonata in C minor.

这张唱片包括了 C 小调的钢琴奏鸣曲。

16. **Minority [maɪ'nɔrəti] 少数; 少数民族; 未成年;**

词根: min 1. =project,表示"伸出,突出"; 2. =small,表示"小"

A small minority of: 很少一部分

To abandon the election because of some threats from a small minority of Taliban(/tælə'bæn/)?

难道由于有小股少数的塔利班的一些威胁而放弃选举吗?

prominent 显著的,杰出的

pro 向前+min 伸+ent……的→向前伸出→杰出的

minor 较小的

min 小+or→adj.较小的,较小的 n.兼修学科 v.[in]兼修

minus 负的,减的

min 小+us→变少→减去

17. **consist of 由…组成; 包括; (主动语态)**

The book consists of nineteen chapters.

全书共分 19 章。

A chair consists of a seat with a back.

椅子是由椅座和椅背构成的。

Their flat **consists of** two bedrooms, a kitchen and a bathroom.

Not: ~~Their flat is consisted of two bedrooms...~~

对比 be composed of (被动语态)

Water is composed of hydrogen and oxygen.

水是由氢氧组成的。

Your grade **is composed of** several factors, such as homework, projects, and test scores.

对比 Comprise[kəm'praɪz]: 包括, 组成, 构成; (主动/被动)

The USA **comprises**(包括) 50 states.

Oil and coal **comprise**(构成) 70% of the nation's exports.

The course **is comprised of** ten lectures and five seminars on the theory of economics and banking.

We don't use consist, comprise and compose in a continuous form: 不适用进行时

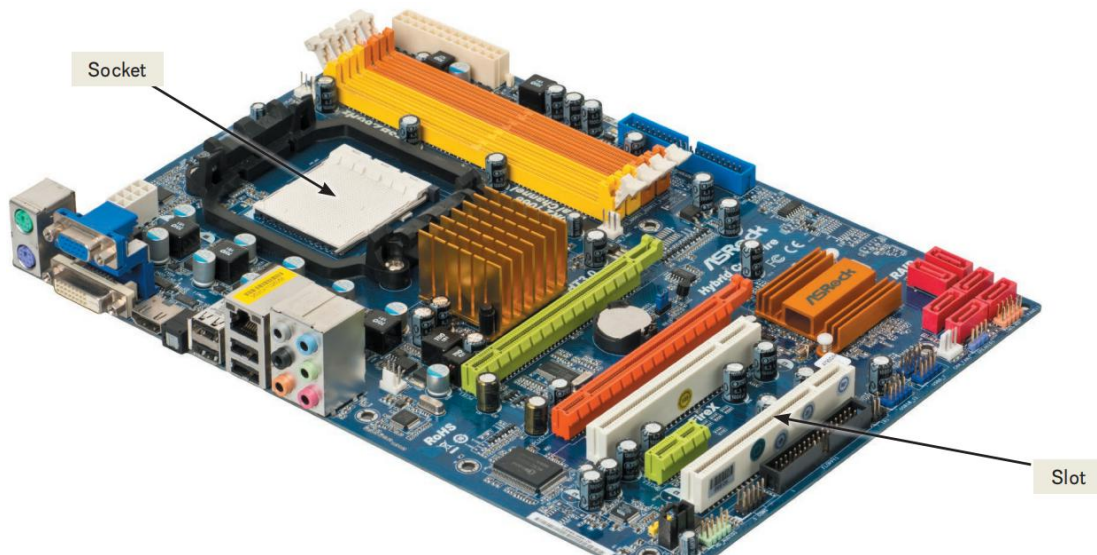
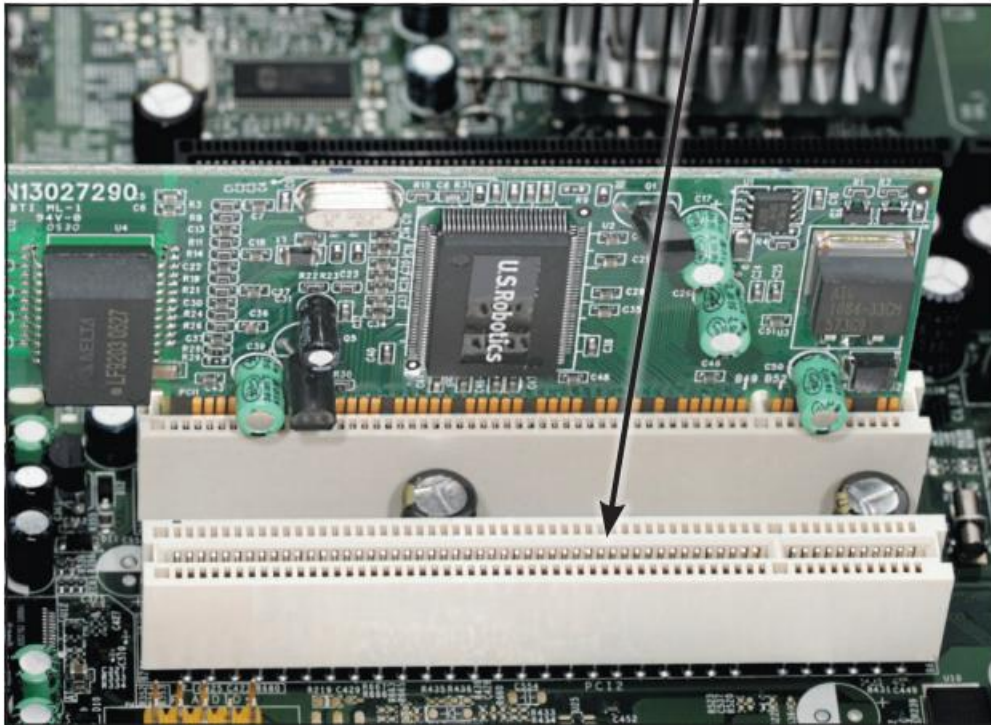
The whole group consists of students.

Not: ~~The whole group is consisting of students.~~

18. Slot: 位置； 狭槽； 插槽

I dropped a quarter into the slot of the pay phone.
我向付费电话的投币孔里投了一枚 25 分硬币。

slot



Processing speeds

单位	速度	科学计数法	符号
微秒	百万分之一秒	1×10^{-6}	us
纳秒	十亿分之一秒	1×10^{-9}	ns
皮秒	万亿分之一秒	1×10^{-12}	ps
飞秒	千万亿分之一秒	1×10^{-15}	fs

Unit	Speed
Microsecond	Millionth of a second
Nanosecond	Billionth of a second
Picosecond	Trillionth of a second
Femtosecond	Quadrillionth of a second

19. **Socket /^lsɒk.ɪt/:**

the part of a piece of equipment, especially electrical equipment, into which another part fits.

20. **BIOS: Basic Input-Output System**

BIOS is non-volatile firmware used to perform hardware initialization during the booting process, and to provide runtime services for operating systems and programs.

21. **Compliant [kəm^lplaɪənt]: 兼容的 (形容词)**

22. **EFI: Extensible Firmware Interface, 可扩展固件接口**

EFI 在 2.0 后称为 UEFI: Unified EFI (体现多个公司加入后统

—)

23. Bus

Every computer system has two basic categories of buses.

One category, called **system buses**, connects the CPU to memory on the system board.

The other category, called **expansion buses**, connects the CPU to other components on the system board, including expansion slots.

24. PCI: Peripheral Component Interconnect

peripheral [pəˈrɪfərəl] 外围的, 周边的

PCI Express (PCIe) is widely used in many of today's most powerful computers. Unlike most other buses that share a single bus line or path with several devices, the PCIe bus provides a single dedicated path for each connected device. New type of bus that is 30 times faster than PCI bus.

25. USB: Universal Serial Bus

Universal serial bus (USB) is widely used today. External USB devices are connected from one to another or to a common point or hub and then onto the USB bus. The USB bus then connects to the PCI bus on the system board.

26. ISA (Industry Standard Architecture) 工业标准架构总线

ISA 是工业标准架构总线, 是计算机中最早最稳定的总线, 也是目前传输速度最慢的总线架构, 与它相连的汇流排有 8 位槽和 16 位槽两种。

由于 ISA 稳定简单，使得 PC 的使用率与普及率大增，厂商很容易就开发出兼容性的适配卡来扩充 PC 的效能。

ISA 最高的时钟频率为 8MHz，由于速度太慢现已基本被淘汰。

27. **EISA(Extended Industry Standard Architecture):**扩展工业标准结构)1989 年工业厂商联盟为 32 位 CPU 设计的总线扩展标准，兼容 ISA 总线，现已被淘汰。

28. **Fragile** /¹frædʒaɪl/易碎的，易损的

29. **Memory stick** 记忆棒，存储卡



30. **Disk Array 磁盘阵列:**把多个相对便宜的硬盘组合起来，成为一个硬盘阵列组，使性能达到甚至超过一个价格昂贵、容量巨大的硬盘

Redundant arrays of independent disks (**RAID**) improve performance by expanding external storage, improving access speed, and providing reliable storage.



31. **Sound card:** 声卡



32. Terminal: (电路的)端头, 端子, 线接头

33. Speaker: 扬声器



34. Modem [ˈmɒdəm]: 调制解调器



35. DSL: Digital Subscriber Line 数字用户线路

ADSL: Asymmetric Digital Subscriber Line, 非对称数字用户线

36. Cable: 网线



37. Trackball: 轨迹球



38. Joystick: 操纵杆



39. Webcam: 网络摄像头



40. Microphone: 麦克风, 扩音器



41. Hard copy: 硬拷贝, 复印文本, 复印件, 打印稿

42. Inkjet: 喷墨; 喷墨打印机

43. Laser /'leɪzə/: 激光 (打印机)

44. CRT: Cathode Ray Tube 阴极射线管显示器



45. LCD: Liquid Crystal Display 液晶显示器

46. Vibration [vaɪ'breɪʃn]: 振动

词根: vibr = swing, 表示"摇摆"

vibrate 摇摆+ion 表名词→n.颤动,振动;摆动

47. audible [ˈɔːdəbl]: 听得见的

词根: audi =hear,表示"听"

audi 听+ible 能……的→adj.听得见的;可听的

48. headset /ˈhedset/: 头戴式耳机

49. disturb /dɪˈstɜːb/: 打扰

词根: turb =stir,表示"搅动,混乱"

dis 分开+turb 搅动,混乱→搅开了→搅乱了