

Hewlett-Packard PA-64 Multiple Choice Questions:

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1. What type of branch prediction does PA-RISC 2.0 allow for?
 - a. static
 - b. dynamic
 - c. both a & b
 - d. none of the above

Correct answer: c

2. Which version of PA-RISC architecture does all PA-8x00 processors use?
 - a. PA-RISC 1.0
 - b. PA-RISC 1.1
 - c. PA-RISC 2.0
 - d. PA-RISC 2.1

Correct answer: c

3. PA-RISC 2.0 processors can fetch how many instructions per cycle?
 - a. 1
 - b. 2
 - c. 3
 - d. 4

Correct answer: d

4. How large is the L2 cache for the PA-8800?
 - a. 64MB
 - b. 32MB
 - c. 16MB
 - d. 8MB

Correct answer: b.

5. The PA-RISC 2.0 processors implement which cache architecture?
 - a. Harvard
 - b. von Neumann
 - c. Crafton
 - d. None of the above

Correct answer: a.

Below are the multiple choice questions (Broome-Kagarise-Overstron-Lindsay: Intel 8086):

What is Op-code?

- a) The instruction that is to be executed (correct answer)*
- b) The value in which an operation acts upon*
- c) A mnemonic that defines a data size*
- d) The compiled assembly code*

What are the names of the 4 segment registers?

- a) Data, Index, Code, Stack*
- b) Stack, Index, Extra, Code*
- c) Stack, Data, Base, Counter*
- d) Stack, Extra, Code, Data (correct answer)*

How much memory space does the 8086 have?

- a) 256Kb*
- b) 512Kb*
- c) 1M (correct answer)*
- d) 4M*

How many bits wide is the address bus on the 8086 Processor?

- a) 8-Bits*
- b) 16-Bits*
- c) 20-Bits (correct Answer)*
- d) 24-Bits*

How many transistors does the 8086 have?

- a) 10,000*
- b) 29,000 (correct Answer)*
- c) 110,000*
- d) 129,000*

Here is our term project (Mittner-Paetz-Olschofka: Pentium 4 processors).

1. **What generation chip is the Pentium 4 for the Intel central processing units?**
 - A. **Seventh generation**
 - B. **Eighth generation**
 - C. **Ninth generation**
 - D. **Tenth Generation**

Correct answer: A

2. **What speed system buses can the Pentium 4 support?**
 - A. **800, 533, 400 megahertz**
 - B. **200, 400, 533 megahertz**
 - C. **400, 450, 600 megahertz**
 - D. **100, 200, 400 megahertz**

Correct answer: A

3. **RAID 0 uses this technique to write to the Hard Drive**
 - A) **Dumping**
 - B) **Stripping**
 - C) **Slapping**
 - D) **Mirroring**

Correct answer: B

4. **Hyper-Threading turns a physical processor into how many logical processors.**
 - A) **1**
 - B) **2**
 - C) **3**
 - D) **5**

Correct answer: B

5. **The 90nm Process consists of...**
 - A) **Strained Silicon**
 - B) **High-speed copper interconnects**
 - C) **"low-k" dielectric insulating material**
 - D) **All of the above**

Correct answer: D

Questions for Review (Prochnow, Femiano, Peppler, Boucher: Cray X-1):

- 1.) **How many multi-chip modules (MCM) are there on every node in the Cray X1?**
 - a. **1**
 - b. **2**
 - c. **3**
 - d. **4**

- 2.) **How are the multi-streaming processors cooled in the Cray X1?**
 - a. **They are sprayed with Fluorinert**
 - b. **They are cooled by fans**
 - c. **They are sprayed with water**

- d. *They are immersed in water*
- 3.) *What does it mean to say that the memory on the Cray X1 is globally addressable?*
- a. *Any computer on the globe can access the memory*
 - b. *Any component on any node can access the memory on another node*
 - c. *The memory is in a centralized location and is accessed globally by the nodes*
 - d. *The memory address must be specified by a global addressing unit*
- 4.) *Which of the following is NOT a common application for the Cray X1 supercomputer*
- a. *nuclear research and simulation*
 - b. *atmosphere forecast*
 - c. *commercial banking*
 - d. *cryptology*
- 5.) *Cray machines can be purchased in one of two types of cabinets, which are they?*
- a. *air cooled and liquid cooled*
 - b. *air heated and liquid cooled*
 - c. *air cooled and liquid heated*
 - d. *air heated and liquid heated*

Answers to Questions

- 1.) *d*
- 2.) *a*
- 3.) *b*
- 4.) *c*
- 5.) *a*

(O'Malley, Lenhardt, Payne, Taylor: Intel Processors)

The 4004 microrprocessor was released in the year of:

- a.) *1964*
- b.) *1968*
- c.) *1972*
- d.) *1971*
- e.) *1974*
- f.) *1978*

The answer is c.

The 8086/8088 used two processing units which were known as:

- a.) *Left and Right Units*

- b.) Segment and Offset Units*
- c.) Bus Unit and Execution Interface Unit*
- d.) ALU and Control Unit*
- e.) Bus Interface Unit and Execution Unit*

The answer is e.

The designer of the 4000 chip set was:

- a.) Marcian Hoff*
- b.) Jack Kilby*
- c.) Bill Gates*
- d.) Federico Faggin*
- e.) John Rogers*

The answer is d.

The 8086 was how many bit processor?

- a.) 4*
- b.) 8*
- c.) 16*
- d.) 32*
- e.) 64*

The answer is c.

The first processor to include Virtual memory in the Intel microprocessor family was:

- a.) 4004*
- b.) 8008*
- c.) 8080*
- d.) 8088*
- e.) 80286*
- f.) 80386*
- g.) 80486*
- h.) Pentium*
- i.) Pentium Pro*

The answer is e.

Exam questions K(Kopek, Snead, Kenny, Casbeer: AMD-64 and Intel IA-64):

- 1. AMD 64 is based upon which architecture?*
 - a. IA-64 architecture*

- b. X86 architecture*
- c. CISC architecture*
- d. XMM architecture*
- e. None of the above*

Answer: B

2. AMD 64 supports 2 main operating modes for which type of operating systems and applications:

- a. 64-bit and 32-bit*
- b. 32-bit and 16-bit*
- c. 64-bit and 8-bit*
- d. 8-bit and 16-bit*
- e. 32-bit and 8-bit*

Answer: A

3. Which technology allows faster bus speeds on the AMD 64?

- a. AGP-BUS*
- b. PCI-BUS*
- c. Supertransport*
- d. Hypertransport*
- e. None of the Above*

Answer: D

4. Which type of Processing do the EPIC instructions in the Intel Itanium use?

- a. Serial Processing*
- b. Parallel Processing*
- c. Mixed*
- d. None of the Above*

Answer: B

5. Intel Itanium processors are designed for

- a. Servers and personal computers*
- b. Servers only*
- c. Personal computers only*
- d. Calculators*

Answer: B

Here are the 5 multiple choice questions omano-Kennedy-Robertson: Chipsets for Intel & AMD):

1) Which chipset manufacturer was not given a license to manufacture Pentium 4 and suffered legal consequences?

- A) SiS*
 - B) VIA*
 - C) nVidia*
 - D) AMD*
- (Answer: B)*

2) What chipset was adapted for Xeon use but was only intended to be used for Pentium 4 Processors?

- A) 845G*
 - B) E7505*
 - C) 875P*
 - D) VIA K8T800*
- (Answer: C)*

3) Which of these is NOT true? The chipset integrates features that determine:

- A) The maximum wattage for the power supply*
 - B) The size of the L2 cache*
 - C) The internal clock speed capabilities*
 - D) The types of expansion slots available*
- (Answer: A)*

4) Name one of the two properties determined by the chipset that provides the CPU with its speed capabilities.

- A) Front Side Bus speed and the processor multiplier*
 - B) amount of cacheable memory and size of cache*
 - C) width of PCI bus and width of memory bus*
 - D) number of expansion slots and peripheral devices*
- (Answer: A)*

5) Which chipset used hub architecture:

- A) Triton 430FX*
 - B) Triton 430TX*
 - C) 430LX*
 - D) 820*
- (Answer: D)*

(Stenger-Greenfield-Ting-Pozun: PCI Bus):

1. What is a feature of the PCI bus?

- a) Extended System Configuration Data
- b) Burst Mode*
- c) Direct Memory Access
- d) None of the above

2. What layer in the PCI Express Architecture allows for QoS to take place?

- a) Physical
- b) Link*
- c) Transaction
- d) Software

3. The PCI Bus Architecture is based on two existing architectures which of the following is one of them?

- a) AGP Bus
- b) Data Bus
- c) VESA Local Bus*
- d) Front Side Bus

4. What operating system supports Plug and Play?

- a) Linux
- b) Windows*
- c) Unix
- d) OS2

5. What is the Voltage standard for PCI?

- a) 3.3
- b) 5
- c) 2.3
- d) more than one of the above*