

OS Memory Management Job Interview Questions And Answers



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OS Memory Management Interview Questions And Answers Guide.

Question - 1:

What is segmented memory management?

Ans:

Segmented memory is the only memory management technique that does not provide the user's program with a linear and contiguous address space. Segments are areas of memory that usually correspond to a logical grouping of information such as a code procedure or a data array. Segments require hardware support in the form of a segment table which usually contains the physical address of the segment in memory, its size, and other data such as access protection bits and status

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Question - 2:

What is paged memory management?

Ans:

Paged allocation divides the computer's primary memory into fixed-size units called page frames, and the program's address space into pages of the same size. The hardware memory management unit maps pages to frames.

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Question - 3:

What is partitioned allocation?

Ans:

Partitioned allocation divides primary memory into multiple memory partitions, usually contiguous areas of memory. Each partition might contain all the information for a specific job or task. Memory management consists of allocating a partition to a job when it starts and unallocating it when the job ends.

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Question - 4:

What is single contiguous allocation?

Ans:

Single allocation is the simplest memory management technique. All the computer's memory, usually with the exception of a small portion reserved for the operating system, is available to the single application. MS-DOS is an example of a system which allocates memory in this way

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Question - 5:

What are the main types of memory?

Ans:

RAM- Random Access Memory is a volatile form of memory. This means that the content written on RAM is wiped off when the power is turned OFF. ROM - Read only memory like hard disks, tapes are ROM where the content once written is permanently written unless wiped off by the user..

The basic types of memories that a computer has are:

- RAM Random access memory
- ROM Read Only memory
- Cache Memory

Other than these a computer also has secondary storage devices like a hard disk which also contribute towards it memory.

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Question - 6:

Do you know what is page fault and when does it occur?

Ans:



A page is a fixed length memory block used as a transferring unit between physical memory and an external storage. A page fault occurs when a program accesses a page that has been mapped in address space, but has not been loaded in the physical memory.

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Question - 7:

What is dirty bit?

Ans:

A dirty bit is a flag that indicates whether an attribute needs to be updated. Such situations usually occur when a bit in a memory cache or virtual memory page that has been changed by a processor but has not been updated in the storage.

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Question - 8:

What is compactions?

Ans:

Compaction is a process in which the free space is collected in a large memory chunk to make some space available for processes.

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