

Assignment # 2

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Q: How does logical address map to physical address?

Comparison

Logical address	Physical address
<ul style="list-style-type: none">• It's a virtual address created by CPU• Set of logical addresses in reference to a program is called logical address space.• Can be viewed by a user	<ul style="list-style-type: none">• Physical address within a memory unit• Set of all physical address mapped to its corresponding logical address is called physical address space.• Cannot directly be viewed by the user.

Thus,

The CPU generates a logical address or virtual address. As such using MMU (Memory management unit) physical address corresponding to the logical address is computed. MMU also uses logical address to calculate the physical address.

So, physical address is mapped to a logical address using hardware called memory management unit (MMU). A physical address space holds physical addresses corresponding to logical addresses.

