

LOGICAL ADDRESS VS PHYSICAL ADDRESS

- Logical address is the address that is seen by the program and the cpu and nothing exists at these addresses
- Physical address is the actual address in the RAM where instructions and data of the program are stored.

● The maximum size of a process depends on the hardware architecture, whether it is 32 bit or 64 bit system.

● 32 bit system means the maximum size of cpu registers is 32 bit.

● 32 bit system - 2^{32} bytes

● 64 bit system - 2^{64} bytes

● Whether such a big process will be able to run or not depends:

- Size of RAM - contiguous memory allocation

- Size of RAM + hard disk - non contiguous allocation