

# Virtual Memory in a nutshell

The application does not see physical memory addresses → Memory-Management Unit (MMU) relocates each load/store at runtime









### Virtual Memory

### Physical Memory



#### Virtual Address 0x30408



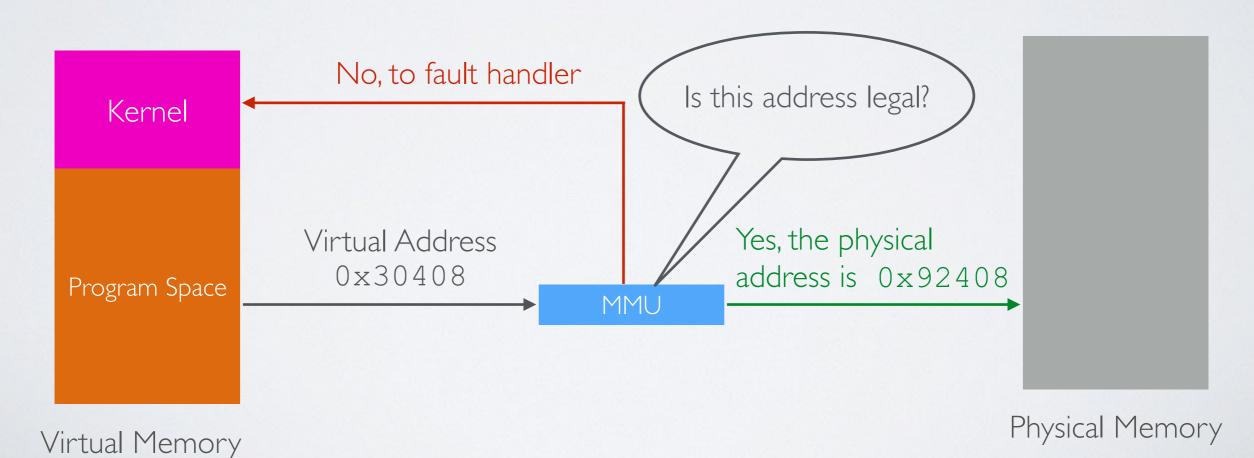
### Yes, the physical address is $0 \times 92408$



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# Virtual Memory Advantages

✓ Can re-locate process while running either in memory or to disk (a.k.a swap)