

DIFF BETWEEN

32 BIT VS 64 BIT



@codechips



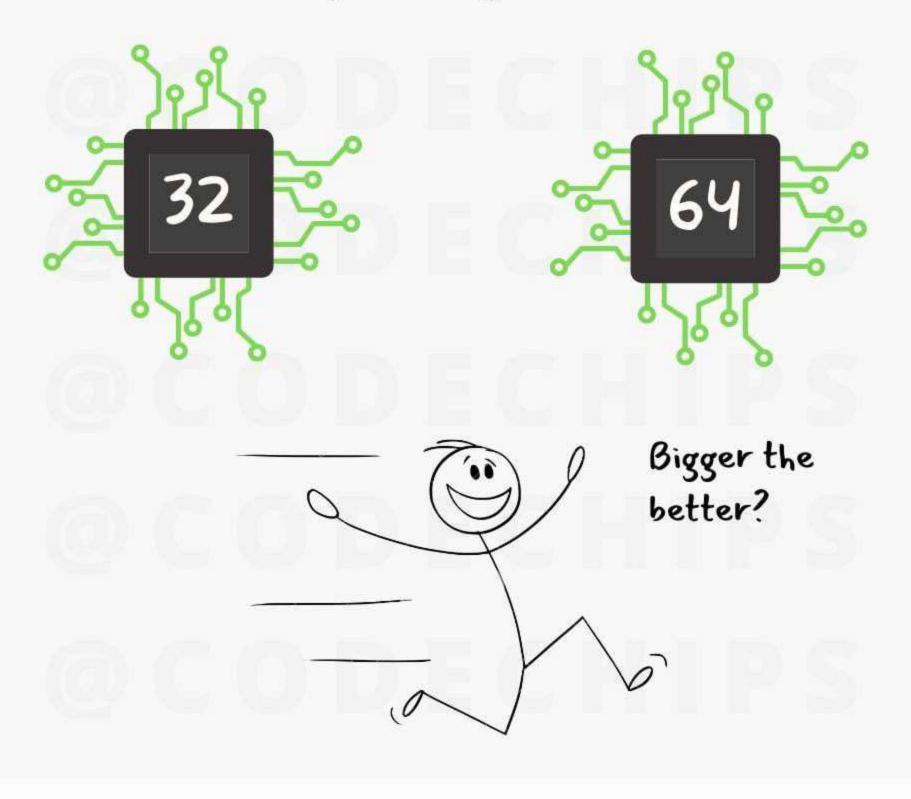
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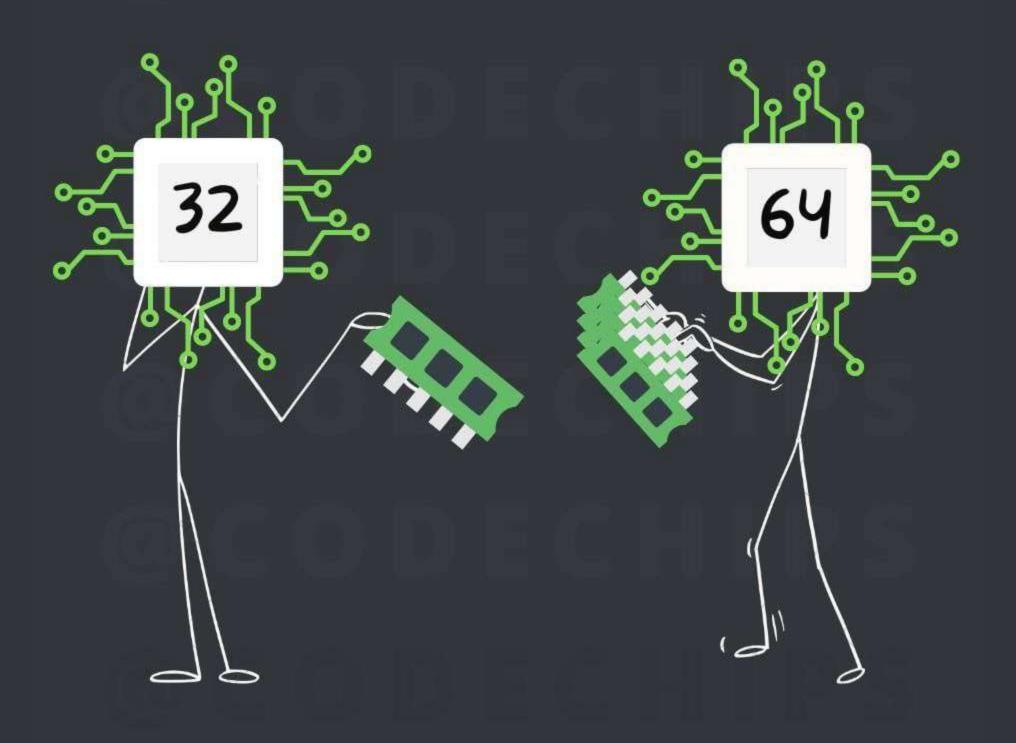
We often find hardwares and software in 32 and 64 bit versions

But what do they actually mean?





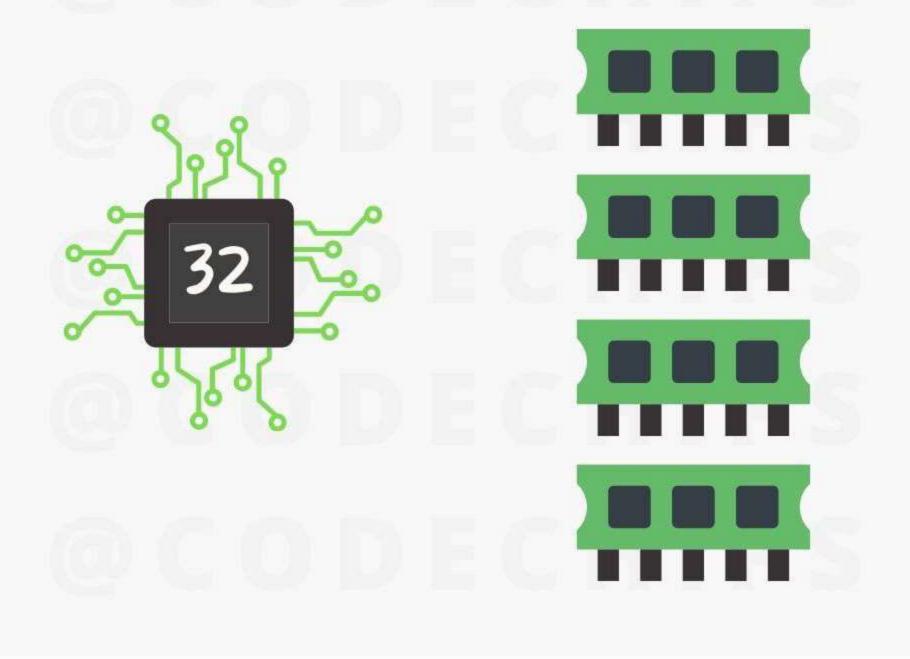
The difference is the way it handles memory





A 32-bit system can access 2 memory addresses, i.e., 4 GB of RAM

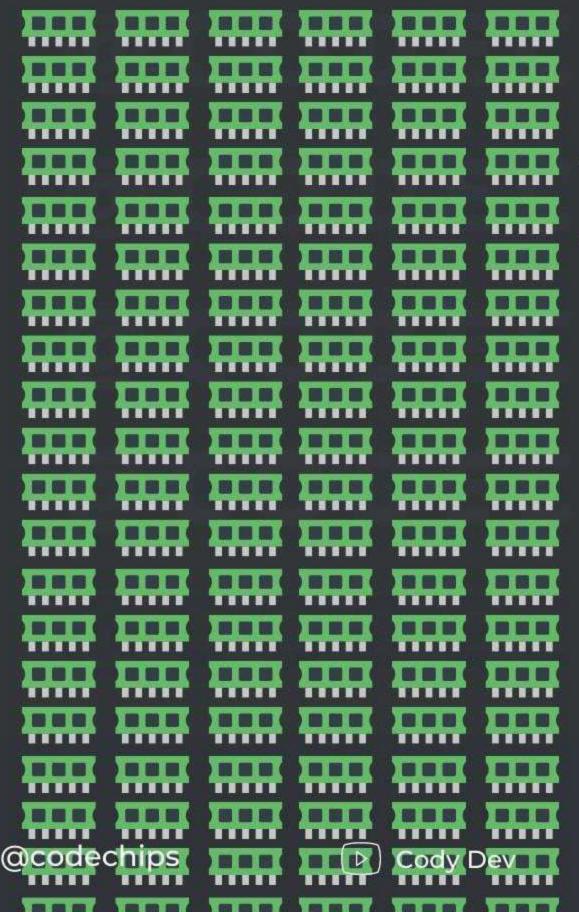
It can also access more than 4 GB of RAM

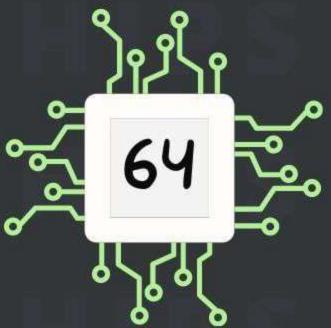




A 64-bit system can access 2 memory addresses, i.e., 18-Quintillion bytes of RAM

In short, any amount of memory greater than 4 GB can be easily handled by it.





Thats 1,800,000,000 GB Seems like unlimited!

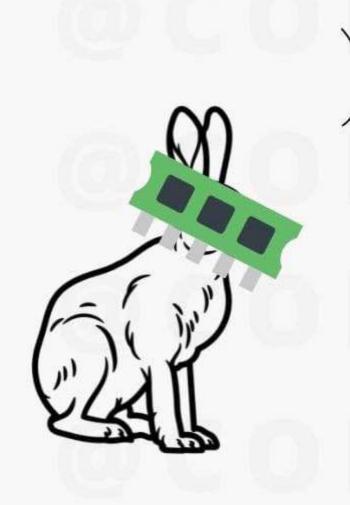
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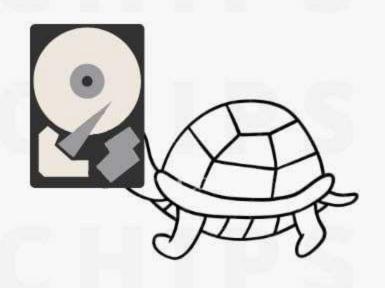


PERFORMANCE?

The Speed of RAM is much higher than the hard disk

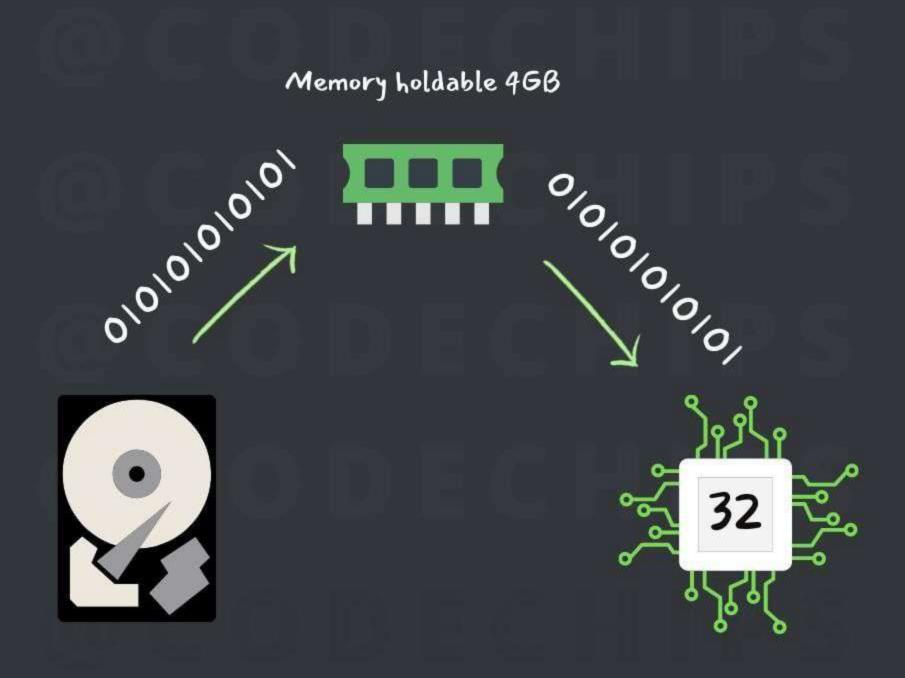
A program needs to be loaded on to the RAM first







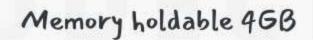
In 32-bit system more data is stored from the slower hard drive to the faster RAM for the CPU to access it to compensate for low memory

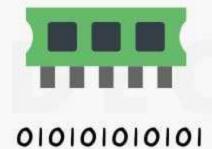


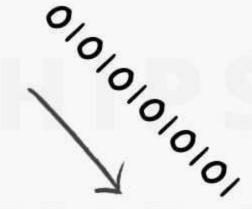


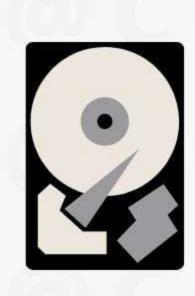
But in a 64-bit system, it can store more than 4GB. So it stores more data on the Faster RAM

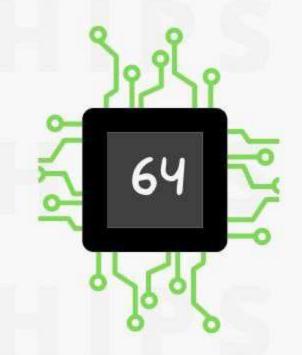
making it run a lot faster













This makes the 64-bit system much faster than the 32-bit system



