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# Microsoft Windows OS

## 15.9GB Memory

I have 32GB RAM but only 15.9GB are usable.  
There may be 2 problems

Problem	Solution
You have Windows Vista - 7 / Home Edition	Upgrade your OS to Windows 10 for free
Problem with computer BIOS	Flash your motherboard BIOS to latest from manufacturer website

## Memory limits by OS

OS	Architecture	Memory Limit
Windows *	32bit	4GB minus HW address space
Windows 7 Home Basic	64bit	8GB SW Limited
Windows 7 Home Premium	64bit	16GB SW Limited
Windows 7 Pro	64bit	192GB
Windows 8	64bit	128GB
Windows 8 Pro	64bit	512GB
Windows 10 Home	64bit	128GB
Windows 10 Pro	64bit	2TB
Linux *	32bit	4GB - 1/3GB and 2/2GB
Linux *	64bit	64TB

Under 32bit Windows single process cannot use more than 2GB RAM.  
Under 32bit Linux there are two configurations 1GB (default) and 2GB (not standard).

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