**Moore's Law** states that the number of transistors on a microchip doubles about every two years, though the cost of computers is halved.

Moore’s law is effectively stopped being true because of the following reasons:

1. As transistors increase, power demand increases which in turn increases the temperature.
2. Smaller transistors switch faster
3. Exponential increase in density would lead to exponential increase in spped.
4. Transistors need a minimum voltage to switch and voltage reduction has lower limits due to noise
5. Dynamic power consumption is reduced by voltage scaling.
6. Voltage scaling does not prevent power leakage.