

Moore's Law

Moore's Law (ML) is an observation and projection of historical trend that the number of transistors doubles every two years.

Transistors are already not visible for a human eye and if ML was to continue engineers will have to build transistors from components that are smaller than atoms. And as density increases power increases. With power increases the temperature. Voltage scaling reduces power consumption, but it cannot prevent leakage power loss and also is limited due to noise or threshold voltage. It is also very expensive for companies to build new fabrication plants and keep up.

As a result of these factors it is predicted that ML will not continue to be true.