Moore’s law is an observation that says that the density of transistors on a chip will double every 2 years. This is no longer true because there is are size and temperature limitations when considering the amount of transistors on a chip. The transistors can only get so small. In addition, the more transistors on the chip, the more power they consume. The biggest factor in the amount of power consumed is the voltage. The higher the voltage scaling, the more power consumed. The amount of voltage scaling can only decrease to a certain amount due to the fact that noise margins need to be considered. In addition, decrease the amount of voltage does not decrease the amount of power leakage. The more power consumed, the more heat generated by the chip. There is only a limited amount of cooling that can be done per unit time so if there is too much heat generated, the chip will melt.