Moore’s law states that computers get two times more powerful every two year.

Until recently it meant that the transistor density is doubling every two years. And a while ago this meant that computers actually got twice as fast every two year.

But this stopped being true for the following reasons:

* Power consumption and more specifically heat dissipation has reached practical limits: CPU cooling is at its max
* Lowering the parameters that are the cause for the power consumption have reached their limits: voltages cannot be lowered furthermore, current leakage cannot be diminished any further

The end result is that increasing transistor density is no longer an option.

Making the CPU more powerful by adding cores is the only option until new disruptive technologies become available.