- Analysis

Performing two or more tasks at the same time requires more number of memory models. This makes analysis a difficult process in a multi core processor. Especially, it is hard to measure time limits and may not be accurate. In addition to that, if the number of cores increases, it can cause complexity in the interference analysis. Thus, the O/S will not be able to deliver expected performance.

- Resource Sharing

Different resources both of which internal and external are shared by a multi core processor. These resources include main memory, system bus, memory controller and networks. Due to this, whatever the application which is executed on the same core will have a tendency to get interfered. These type of interference can be of both spatial and temporal isolation.

- Software Interference

A software interference that is caused due to the resource sharing can pose problems to spatial and temporal isolation. This chance is even greater if there are more number of cores. More cores essentially means that there are high number of interference paths. It is almost impossible to analyze each and every interference paths.