Unix is not a real time scheduler as this is impractical for a general use case operating system. A real time scheduler would result in starvation of low priority processes. It would also require that applications run in kernel mode in order to get direct access to IO devices. This is a large security risk and again, inappropriate for a general use operating environment.

The scheduler cannot guarantee a task to meet a deadline for a couple reasons. One is that the scheduler has no control over how long an I/O device takes to respond. If a spinning disk takes a long time to find data, that is not on the scheduler, that is merely a fault of the disk. Another reason is that processes can be interrupted. You might attach a very high priority to your process, but even if it is the highest priority user mode application, the scheduler will still interrupt it for any kernel mode tasks that come up.