Laboratorio #5:

1. **Basic functionality and general questions** 
   1. What is the main advantage of moving the scheduler out of kernel-mode?
   2. What is the main disadvantage of moving the scheduler to user-mode?
   3. Explain what is the operation performed when SCHEDULING\_START is invoked. (check schedule.c in the same folder)
   4. What is the default quantum assigned to user-level processes?
   5. What is the priority assigned to user-level processes? Others?
   6. What is the function in charge of scheduling processes? (invoked at do\_start\_scheduling)
   7. Identify system files
      1. /usr/lib/src/libsys/sys\_schedule.c
      2. /usr/src/kernel/system/do\_schedule.c

Describe the main objective of each, and provide details of how it is implemented.

Identify function sched\_proc (/usr/kernel/system.c) and explain its purpose.

1. **Advanced Features**
   1. What is the policy in MINIX to manage those processes that have exhausted all of their quantum (out-of-quantum)? (follow the invocation of SCHEDULING\_NO\_QUANTUM in main.c)
   2. Explain the purpose of the scheduling queues. (see Fig. 2)
   3. Describe the steps that the scheduler takes to increase the priority of a process. (see balance\_queues in schedule.c)
   4. Describe the functionality of function pick\_proc (see /usr/src/kernel/proc.c)