

For this project, first, two system call were added: `int getpinfo(struct pstat *)` and `int settickets(int num)`. The `sys_getpinfo` function was defined in `sysproc.c`, which would read the `pstat` parameter with `argptr` function. After getting the `pstat` parameter, the function passes it to a help function `getpinfo` that was defined in `proc.c`. The helper function then stores all the information about current processes into the `pstat`. Function `settickets` is defined in `sysproc.c`. It read the parameter with `argint` and then set ticket with that value. Both the system calls are declared appropriately in header files, including `sysfunc.h`, `syscall.h`, `syscall.c`, `user.h` and `usys.S`. The help functions are declared in `defs.h`.

Second, the default scheduler was modified to a lottery scheduler. The lottery scheduler follows the design introduced in the text book. A random number generator `lfsr113()` was used, which I got from <http://www.iro.umontreal.ca/~simardr/rng/lfsr113.c>.

Graph:

