User Manual

for

CS 450 MPX Project

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The user has the availability of several current functions that can be utilized by the current operating system. Those functions can be entered in the terminal window for application.

Functions:

* *Version*: User can type the word “Version” to display the current system version.
* *Help*: User can types the word “Help” which will then display commands related to the system.
* *Shutdown*: User can type the word “Shutdown”, which will allow a confirmation window to appear and thus allow for the system to be exited.
* *GetDate*: User can type “GetDate” which will allow the system to display the current date.
* *SetDate*: User can type “Set Date” which will prompt the user to enter a set of integers that correspond to the customizable date.
* *GetTime*: User can type “GetTime” and the system will display the current time.
* *SetTime*: User can type “SetTime” which will allow the user ti enter a set of integer that correspond to the customizable time.
* *Alarm*: creates an alarm and is set to go off at a specific time
* *Infinite Process*: a process that always calls idle() and can only be deleted when suspended
* *Terminate*: Ends the current process
* *Read*: command for mpx to read from device driver
* *Write*: command for mpx write to device

The following functions deal with process management.

* *Suspend*: User can change a process to the suspended state by typing “Suspend (valid process name)”
* *Resume*: User can resume a process that has been suspended by typing “Resume (valid process name)”
* *SetPriority*: User can set the priority of a process by typing “Set Priority (valid process name, valid priority)”
* *ShowPCB*: User can view meaningful information about a desired process by typing “Show PCB (valid process name)”
* *ShowAllProcesses*: The user can view a list of all processes by typing “Show All”
* *ShowReadyProcesses*: The user can view a list of all ready processes by typing “Show Ready”
* *ShowBlockedProcesses*: The user can view a list of all blocked processes by typing “Show Blocked”
* *Create PCB*: User can create a process with a valid name, class, and priority
* *Delete PCB*: User can delete a process with a valid name
* *Block*: User can block a process with a valid name
* *Unblock*: User can unblock a process with a valid name