MPX Users Manual

V 0.2

Perpetual Motion Squad

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When you initially boot up PMOS it will give you a startup message and then bring you to a command prompt. From this command prompt you can choose from several types of functions supported by PMOS. The following is a list of functions supported by PMOS and a description of how to use them.

Load- Used by typing 'L' in the command prompt. Shows available MPX files in the directory the user searches.

Date- Used by typing 'D' in the command prompt. Displays the date then prompts the user if they want to change it. If selected they can change the day month and year to any valid day.

Prompt- Used by typing 'P' in the command prompt. Allows the user to change the prompt displayed in the command line.

Version- Used by typing 'V' in the command prompt. Gives the user information about the version of PMOS they are currently using.

Help- Used by typing 'H' in the command prompt. Prints out a list of functions available to the user with short descriptions.

Create PCB- This function is used to create an instance of a process control block. All preocess's start in the ready state. it is used by typing "create(name,type,priority)". Type can be 0 for system, or 1 for application, priority can be from -128 to 127 with 127 being the lowest priority.

Delete PCB- Used by typing "delete(name)". This function deletes the process specified in the name field.

Block- Used by typing "block(name)". This function puts the process in the name field in the blocked state.

Unblock- Used by typing "unblock(name)". This function puts the process in the name field in the ready state.

Suspend- Used by typing "suspend(name)". This function puts the process in the name field in the suspend state.

Resume- Used by typing "resume(name)". This function takes the process in the name field in removes it from suspend.

Set Priority- Used by typing "suspend(name,priority)". This function takes the process in the name field and sets it to the value in priority. This can take values from -127 to 128.

Show PCB- used by typing "show(name)". This function shows detailed information about the process in the name field.

Show All- used by typing "showAll". This function shows the name and state of all current processes.

Show Ready- used by typing "showReady". This function shows the name and state of all current processes in the ready state followed by all not in the ready state.

Show Blocked- used by typing "showBlocked". This function shows the name and state of all current processes in the blocked state followed by all not in the blocked state.

Exit- Used by typing 'X' in the command prompt. Prompts you to make sure you want to exit. Then stops all processes and exits PMOS.