

COVID-OS USER MANUAL

BOOTING COVID-OS:

Navigate to 'mpx_core' using the terminal.
Run the command 'make clean' to create a clean makefile.
Run the command 'make' to compile the files for the OS.
Run the command '\$ qemu-system-i386 -nographic -kernel kernel.bin -s' to boot.

THE COMMANDS:

After the boot sequence, you will see a list of commands.
To select a command, type the letter(s) in brackets [] of the corresponding command followed by the 'enter' key.

H - Help

Access the help menu, showing a description of each command.

V - Version

Displays the current system version.

SD - Set Date

Set a custom date, in the format MM/DD/YYYY.
Type 'X' to exit setting a date.

GD - Get Date

Displays the date in the format MM/DD/YYYY.

GT - Get Time

Displays the current time in the format HH:MM:SS.

ST - Set Time

Set a custom time in the format HH:MM:SS.
Type 'X' to exit setting a date.

C - Clear Screen

Clears the current screen.

E - Exit

Exit COVID-OS.
Type 'Y' to confirm.
Type 'N' to return to the command list.

PCB USER COMMANDS

SUS - Suspend PCB

Suspends a PCB with a given process name.

RES - Resume PCB

Resumes a suspended PCB with a given process name.

PRI - Set Priority

Set the priority of a PCB with a given process name.

SPCB - Show PCB

Shows the Name, Class, Status, State, and Priority of a PCB with the given process name.

SA - Show All

Shows all current PCBs and if they are in the Ready or Blocked Queue.

SR - Show Ready

Shows all current PCBs in the Ready Queue.

SB - Show Blocked

Shows all current PCBs in the Blocked Queue.

DEL - Delete PCB

Deletes a PCB with a given process name.

R3 AND R4 COMMANDS

LOAD - Load

Loads a process into memory in a suspended ready state.

INF - Infinite

Adds an infinitely running process.

ALA - Alarm

Creates an alarm with the format (message)/(HH:MM:SS).

R5 COMMANDS

FREEMEM - Free Memory

Frees a particular block of memory that has been allocated

ALO - Allocate Memory

Allocates memory from the heap given an integer parameter

ISEMP - Is Empty

Returns true or false depending on if the heap is empty or not

SFM - Show Free Memory

Shows the address and size of the free memory blocks

SAM - Show Allocated Memory

Shows the address and size of the allocated memory blocks