User Manual for MPX Core

Version: R3 & R4



Group 9 3/19/2021

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getdate

```
Purpose- returns the stored date in the form:
      dayOfWeek day month year (4 digits)
Usage- getdate
Example-
     input getdate
      output- Mon 8 Feb 2021
gettime
Purpose- returns the stored time in 24 hour form:
      hours:minutes:seconds
Usage- gettime
Example-
      input- gettime
      output- 13:27:56
```

help

Purpose- returns usage assistance for a specified command

```
Usage- help [command]
```

Example-

```
input- help gettime
```

output- GETTIME HELP PAGE

Usage: gettime

Description: Displays the current time in 24hr format

[hour:minute:seconds]

setdate

```
Purpose- change the stored date in the form of:
```

dayOfWeek day month year (4 digits)

Usage- setdate [dayOfWeek] [day] [month] [year]

Example-

```
input- setdate Mon 8 Feb 2021
```

output (when getdate is used)- Mon 8 Feb 2021

settime

input- Y

```
Purpose- change the stored time in 24 hour form:
     hours:minutes:seconds
Usage- settime [hours]:[minutes]:[seconds]
Example-
     Input- settime 12:20:45
     output (when gettime is used)- 12:20:45
shutdown
Purpose- exits the program
Usage- shutdown
Example-
     input- shutdown
     output- Are you sure you want to shutdown? Y N
```

output- Starting system shutdown procedure...

version

Purpose- displays the current version of the program

Usage- version

Example-

input-version

output- Version R2

suspend

Purpose- places the PCB into the suspended state and reinserts into the appropriate queue

Usage- suspend [process name]

Example-

input- suspend

example result- (Changes PCB's state to suspended)

resume

Purpose- Places PCB into the not suspended state and reinserts it into the appropriate queue

Usage- resume [process name]

Example-

input- resume example result- (Changes PCB's state to not suspended)

set priority

Purpose- Sets a PCB's priority (range 0-9) and reinserts the process into the correct place in the correct queue

Usage- set priority [process name] [priority value]

Example-

input- set priority example 5

result – (Changes PCB's priority and reinserts the process into the correct place in the correct queue)

show

show all

Purpose- shows all of the PCB's in all queues

Usage- show all

Example-

input show all output- (will print the attributes of all PCB's)

show ready

Purpose- displays all PCB's in the ready queue

Usage- show ready

Example-

(PRINTS READY NOT SUSPENDED PCB LIST)

show blocked

Purpose- display all PCB's is the blocked queue

Usage- show blocked

Example-

input- show blocked output-

BLOCKED NOT SUSPENDED

(PRINTS BLOCKED NOT SUSPENDED PCB LIST)

(PRINTS BLOCK SUSPENDED PCB LIST)

delete PCB

Purpose- removes PCB from the appropriate queue and frees all associated memory

Usage- delete PCB [process name]

Example- input- delete PCB example result- (deletes PCB and frees all associated memory)

alarm

Sets an alarm on the system that will display the message at or after the specific time.

Usage- alarm "[message]" hh:mm:ss

Example-

input- alarm hello 10:20:00 result- (a new alarm is created with the specified message)

loadr3

Loads 5 test processes (only in R3)

Usage- loadr3

Example-

input- loadr3 result- (5 processes are suspended in a suspended state)