Programmer's Manual

TeamB - MPX

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unsigned char read_rtc(unsigned char reg)

Method to read a byte from RTC.

Author: Nada Boutahar & Othmane Sabor

void write_rtc(unsigned char reg, unsigned char value)

Method to write a byte to RTC.

Author: Nada Boutahar & Othmane Sabor

void unsigned char bcd_to_binary(unsigned char bcd)

Method to convert BCD value to binary.

Author: Nada Boutahar & Othmane Sabor

void unsigned char binary_to_bcd(unsigned char binary)

Method to convert binary value to BCD.

Author: Nada Boutahar & Othmane Sabor

void binary_to_ascii(unsigned char value, char *buffer)

Method to convert binary value to ASCII representation.

Author: Nada Boutahar & Othmane Sabor

void get_date_command()

Method to get the current date of the operating system. Date formatted as follows - mm/dd/yy

Author: Nada Boutahar

void get_time_command()

Method to get the current time of the operating system. Time formatted as follows - hh:mm:ss

Author: Nada Boutahar

void trim_input(char *buf)

Method to remove any trailing whitespace characters from the buffer.

Author: Nada Boutahar & Othmane Sabor

void version_command(const char *args)

Method to display the version to the user.

Author: Othmane Sabor

void help_command(const char *args)

Method to display all commands to the user.

Author: Othmane Sabor

void shutdown_command(const char *args)

Method to shut down the operating system.

Author: Othmane Sabor

void set_date_command(const char *date_str)

Method to set the date of the operating system. Date formatted as follows - mm/dd/yy

Author: Nada Boutahar

void set_time_command(const char *time_str)

Method to set the time of the operating system. Time formatted as follows - hh:mm:ss

Author: Nada Boutahar

void comhand(void)

Method that handles all commands from the user. Determines which command is being used then calls the appropriate method to handle the command.

Author: Othmane Sabor