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ENGINEERING AND MINERAL RESOURCES

MarauderOS User's Manual

CS 450: Operating Systems Structure

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1 Standard Commands

1.1 version

The `version` command in MarauderOS serves as a handy tool for users seeking to gain insights into the current state of the operating system. When executed, this command displays the version on the command line, including the OS's major and minor version numbers, along with the date it was compiled. The major version number signifies the milestone the OS is on. The minor version number signifies the number of features and smaller enhancements that have been incorporated since the last major release.

Usage

The `version` command take in no parameters. An example usage of the command can be seen below in Figure 1.

The image shows a terminal window with a monospaced font. At the top, the text 'MarauderOS' is displayed in a large, stylized, outlined font. Below this, a welcome message reads: 'Welcome to MarauderOS | Use 'help' command to see list of commands'. The user has entered the command '> version'. The output of the command is 'v1.9 last compiled on 09-08-23'. The prompt '>' is followed by a small black square cursor.

```
MarauderOS

Welcome to MarauderOS | Use 'help' command to see list of commands
[> version
v1.9 last compiled on 09-08-23
> █
```

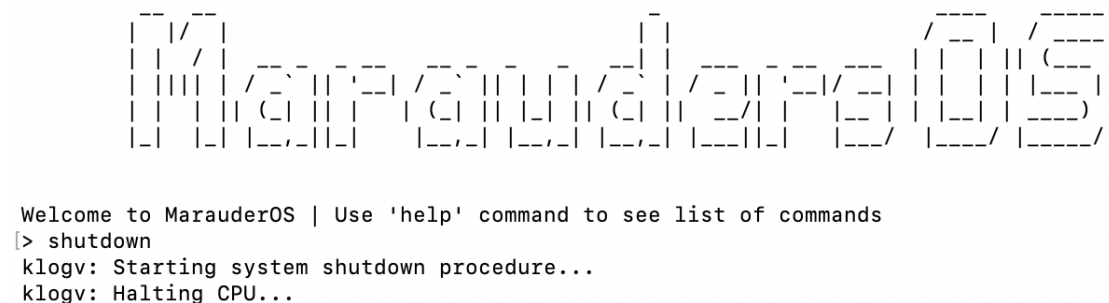
Figure 1: Example Usage of the `version` Command

1.2 shutdown

The `shutdown` command within MarauderOS serves as a way to halt the operating system's operations swiftly. When this command is executed, it initiates an immediate and controlled shutdown of the OS without saving or preserving its current state. Its primary function is to bring the OS to a complete stop, ensuring a clean and efficient termination of all running processes, thus maintaining system stability and reliability.

Usage

The `shutdown` command takes in no parameters. An example usage of the command can be seen below in Figure 2.



```
MarauderOS
Welcome to MarauderOS | Use 'help' command to see list of commands
[> shutdown
klogv: Starting system shutdown procedure...
klogv: Halting CPU...
```

Figure 2: Example Usage of the `shutdown` Command

2 Date & Time Commands

2.1 `getdate`

The `getdate` command in MarauderOS provides users with a convenient way to retrieve and display the current date directly within the terminal interface. Upon execution, this command promptly generates the date in a user-friendly format: `mm-dd-yy`, where "mm" represents the numerical month, "dd" stands for the day of the month, and "yy" indicates the last two digits of the current year. The year is assumed to be in the 21st century, so the current years supported is from 2000 to 2099. The `getdate` command ensures that users can easily access and utilize the current date within the MarauderOS environment.

Usage

The `getdate` command takes in no parameters. An example usage of the command can be seen below in Figure 3.

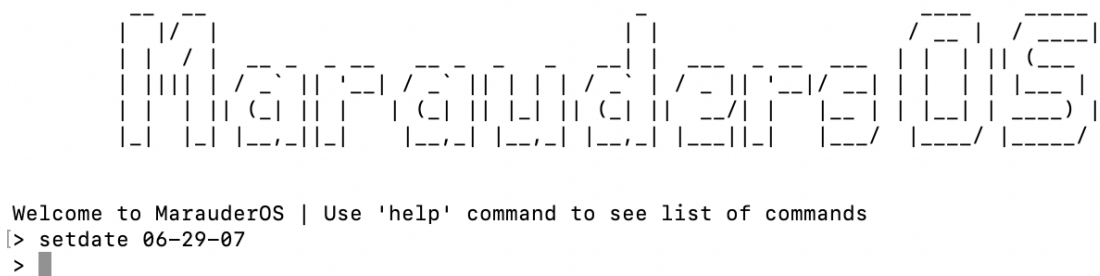
Figure 3: Example Usage of the `getdate` Command

2.2 setdate

The `setdate` command in MarauderOS provides users with a practical means to configure and set the system's date directly from the terminal interface. This command accepts a single parameter, the desired date, provided in the format `mm-dd-yy`, where "mm" represents the numerical month, "dd" denotes the day of the month, and "yy" indicates the last two digits of the year. The `setdate` command empowers users to maintain precise control over the system's date configuration, enhancing the overall functionality and usability of MarauderOS.

Usage

The `setdate` command takes in one parameter; the date the user wants to set the system to in the mm-dd-yy format. An example usage of the command can be seen below in Figure 4.

Figure 4: Example Usage of the `setdate` Command

2.3 `gettime`

The `gettime` command in MarauderOS offers users a straightforward way to access and display the current time within the terminal interface. Upon execution, this command promptly provides the current time in Greenwich Mean Time (GMT), utilizing the 24-hour time format for enhanced precision. The time is presented in the format `hh:mm:ss`, where "hh" represents the hour, "mm" denotes the minutes, and "ss" indicates the seconds. The `gettime` command ensures efficient access to GMT in the 24-hour format within the MarauderOS environment.

Usage

The `gettime` command takes in no parameters. An example usage of the command can be seen below in Figure 5.



```
Welcome to MarauderOS | Use 'help' command to see list of commands
[> gettime
13:55:21
> █
```

Figure 5: Example Usage of the `gettime` Command

2.4 `settime`

The `settime` command in MarauderOS provides users with a powerful tool to configure and set the system's time directly from the terminal interface. This command accepts a single parameter, which is the desired time in the 24-hour GMT format. The time is specified using the `hh:mm:ss` format, where "hh" represents the hour, "mm" denotes the minutes, and "ss" indicates the seconds. This command empowers users to maintain fine-grained control over the system's time configuration within MarauderOS, enhancing overall accuracy and usability.

Usage

The `settime` command takes in one parameter; the time the user wants to set the system to in the `hh:mm:ss` format. Note that the time is in 24-hour GMT format. An example usage of the command can be seen below in Figure 6.

A screenshot of a terminal window for MarauderOS. The top part of the terminal shows the text 'MarauderOS' in a large, stylized, monospaced font. Below this, the terminal displays the prompt 'Welcome to MarauderOS | Use 'help' command to see list of commands'. The user has entered the command '[> settime 09:41:00' and the prompt '>' is shown on the next line, followed by a small black cursor block.

```

MarauderOS

Welcome to MarauderOS | Use 'help' command to see list of commands
[> settime 09:41:00
> █
```

Figure 6: Example Usage of the `settime` Command