TechOS

Programmer Manual

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Overview

Our TechOS is a command line OS that is being made so we can get a good perspective on how Operating Systems are made and operate. The current state is very simple, with this only being the first module, and has only a few commands implemented. The project is written in C and our group is using Git to keep track of files.

For this first module, it involves only the command handler and the basic looping structure for the commands. The commands that can currently be used are datefmt, exit, help, setdate, version, and date.

File Summaries

**commands.c:** Contains all the code to handle commands when they are used

**commands.h:** Header file used by commands.c for method prototyping, struct declaring, constant variable declaration, and prototyping the command methods with a macro called DELCOM.

**techos.c:** The main file that handles running the OS.

**techos.h:** Header file for use in techos.c that has prototyping, a file declared, and some constant variables.

**date.1:** Manual file for the date command

**datefmt.1:** Manual file for the datefmt command

**exit.1:** Manual file for the exit command

**help.1:** Manual file for the help command

**setdate.1:** Manual file for the setdate command

**version.1:** Manual file for the version command

Data Structures

Global Variables

**static const int major\_ver**

**static const int minor\_ver**

These variables are used to keep track of the current version

**static const int NUM\_COMMANDS**

Keeps track of the number of commands

**static const int MAX\_ARG\_COUNT**

Limits the amount of arguments a command can take

**static char \*in\_datefmt**

**static char \*out\_datefmt**

These variables take care of holding the date format and helping with the changes that happen to the date format.

Cross Reference

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