

Custom Shell

Introduction

-> A Custom shell written in C language, supporting four internal and 5 external library commands with Multithreaded and Multiprocessor Options.

-> Use of standard C libraries, including Linux system calls such as fork(),exec() family system calls and wait() family of system calls.

Internal Commands Supported

- pwd
- cd
- echo

External Commands Supported

- ls
- cat
- date
- rm
- mkdir

Installation

```
# clone the repo
$> git clone https://github.com/Custom_Shell_1.git

# change the working directory to src
$> cd src

# run the makefile
$> make -f MakeFile
      OR
$> make
```

Usage

```
$ [COMMAND] -h
Available commands.
    cd
    pwd
    ls
    echo
    cat
    date
    rm
    mkdir
```

cd optional arguments:

-h, --help	show this help
-v, --verbose	display information regarding changes
-f,	force changes

pwd optional arguments:

-h, --help	show this help
-L, --cwd	print the value of \$PWD if it names the current working directory
-P, --physical	print the physical directory, without any symbolic links

ls optional arguments:

-h, --help	show this help
-d, --directory	list directories themselves, not their contents
-a, --all	do not ignore entries starting with .

echo optional arguments:

-h, --help	show this help
-n,	do not output the trailing new line
-v, --verbose	Describe each event as it occurs

cat optional arguments:

-h, --help	show this help
-E, --show-ends	display \$ at end of each line
-n, --number	number all output lines

date optional arguments:

-h, --help	show this help
-t, --show-time	display only time
-d, --show-date	display only date

rm optional arguments:

-h, --help	show this help
-f, --force	ignore nonexistent files and arguments, never prompt
-v, --verbos	Explain what is being done

mkdir optional arguments:

-h, --help	show this help
-p, --parents	no error if existing, make parent directories as needed
-v, --verbos	Explain what is being done

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