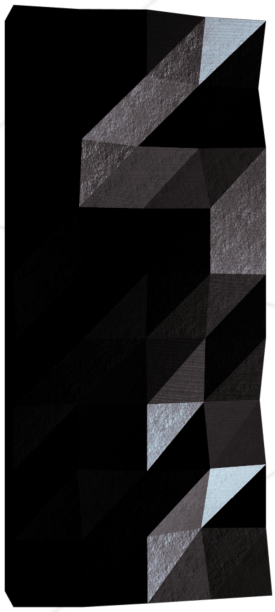

UNIX Project

ft_strace

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Summary: This project aims to recode the strace command.

Contents

Chapter I

Foreword

Strace is a debugging tool under Linux to monitor system calls use by a program, and all the signals it receives, similar to the tool truss on other Unix systems. It was made possible through a feature of the Linux kernel called ptrace.

Chapter II

Subject

You must recode the strace command (without option)

```
\$> man strace
\$> man ptrace
```

- This project will be corrected by humans only. You're allowed to organise and name your files as you see fit, but you must follow the following rules.
- You must be on a `VM` with a linux kernel > 3.4, for your information the scale was made with a `Ubuntu 14.10`
- As a bonus, you can make the -c option and the PATH management, these are the only valid bonuses.
- The executable file must be named `ft_strace`
- You must code in C and render a Makefile (respecting the usual rules)
- For this subject no norm and you have the right of the `libc`, on the other hand avoid the abuses on the norm ! This is an advice for the correction.
- You have to handle errors carefully. In no way can your program quit in an unexpected manner (Segmentation fault, bus error, double free, etc).

- You are not allowed to use the following options :
  - PTRACE_TRACEME
  - PTRACE_ATTACH
- You must handle 64 AND 32 bit binaries
- You can ask your questions on the forum, on slack...

Be very careful with signal management ... Really ...

For the smart ones (or not)... Of course you can't call the real strace.

Chapter III

Submission and peer correction

Submit your work on your `GiT` repository as usual. Only the work on your repository will be graded.