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.