

assembly / file-management / Activity.md



d-khan Update Activity.md

1647a63 · 7 months ago

History



69 lines (43 loc) · 2.02 KB

Preview

Code

Blame

Raw



Activity - File management

Objective

Learn to perform file management in Assembly Language.

Prerequisites

- Before doing the lab, please review the lecture.
- This lab will only work if you run the code on a Linux platform using an Intel x86 platform. The online assembler will not work due to the lack of debugging features.
- Knowledge of how to run assembly code using nasm assembler in Linux OS.
- Knowledge of how to debug an assembly code using gdb .

Task

Perform the following tasks:

1. Create a text-based file called "quotes.txt" and add the following contents (4 marks)

To be, or not to be, that is the question.

A fool thinks himself to be wise, but a wise man knows himself to be a fool.

2. Append the following quotes in the same file. (5 marks)

Better three hours too soon than a minute too late.

No legacy is so rich as honesty.

How to append? [↗](#)

For updating a file, perform the following tasks –

- Put the system call `sys_lseek ()` number 19, in the EAX register.
- Put the file descriptor in the EBX register.
- Put the offset value in the ECX register.
- Put the reference position for the offset in the EDX register.
- The reference position could be:

Beginning of file - value 0 Current position - value 1 End of file - value 2

The system call returns, in case of error, the error code in the EAX register.

What to submit? [↗](#)

1. What were your challenges in performing the lab (from design to the implementation phases)? (1 mark)
2. Working and error-free code. (9 marks)

How to submit it? [↗](#)

- Upload the work in Canvas and clearly define your responses.
- Upload the code in `.txt` format and include comments to describe the code.
- **Do not compress or zip your work.**

Deadline [↗](#)

The deadlines are posted on the Syllabus as well as on Canvas.

Rubric [↗](#)

- All the questions are answered, and the working code is submitted. (Grade 100%)
- Questions are partially answered, and the code has errors or incorrect output. (Grade 50%)