Contribution

Sanchay Singh: loader.c in without bonus and documentation

Arshad: Tried the bonus part

Github Repository

https://github.com/Sanchay117/OS-ELF-Loader

SimpleLoader Implementation

Firstly, I am performing some checks such as if the given file exists and if it does do we have read access , if its a valid ELF flie and so on.Then I am attempting to read the ELF header at offset 0 and storing it in the variable ehdr (made a seperate function for that). After that I am calling load\_and\_run\_elf() in which first I am reading iterating through every programm header and if its a PT\_LOAD type I am using mmap to map it’s segment to memory then performing necessary error handling, and then finding the entry point address. Now after that, I am storing the value returned by fib.c in \_start method and printing it! Then finally, I am freeing all the memory that is ELF\_header,Phdr and segments!