

Contributions:

Manan Aggarwal (2022273) – allocating virtual address to seg fault, catching seg fault

Souparno Ghose (2022506) – elf file checks, reading elf headers and program headers

Loader Implementation(loader.c):

The loader first checks if the given file is a valid ELF file. Then it reads the elf header and program headers and saves them. Then it tries typecasting the entry point and whenever a segmentation fault occurs it counts it as a page fault. It then finds which program header has the given address. Then tries to mmap that given address using the file descriptor and the phdr offset. And then redoes this process for every seg fault.

Github Repo - <https://github.com/Sparta9000/OS-Assignment-4>