Operating Systems 2 – CS3523

Programming Assignment 2 – Report

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How system call works?

The macro for a system call to interact with kernel is defined in Usys.S and every system call gets implemented while booting. All the 21 systemcalls() are initialized in defs.h and user.h and their respective functions are defined in proc.c. They are given specific numbers in syscall.h and their return values are defined with special function int sys\_syscall(void) which provides the return values from proc.c functions. These return values gets stored in proc→tf→eax using syscall() function. The syscall function is implemented in trap