CSE 422- Studio 3

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2.

getuid returned: 1916840

Then we are going to set uid

Error: setuid failed! Reason: Operation not permitted

3.

getuid returned: 1000

Then we are going to set uid

Error: setuid failed! Reason: Operation not permitted

The difference: Their uid are different.

4.

getuid returned: 1000

Then we are going to set uid

Error: setuid failed! Reason: Operation not permitted

5.

asmlinkage long sys\_noargs(void);

asmlinkage long sys\_oneargs(void);

6.

/\* This file implements a demonstration syscall for an OS course. It

\* \* takes no arguments and prints out a simple message to the kernel

\* \* log, indicating that it was called.

\* \*/

#include <linux/kernel.h>

#include <linux/init.h>

#include <linux/sched.h>

#include <linux/syscalls.h>

//Define a system call implementation that takes no arguments

SYSCALL\_DEFINE0( oneargs, int, parameter ){

// // print out a simple message indicating the function was called, and return SUCCESS

printk("Someone invoked the sys\_oneargs system call");

return 0;

}

7.

obj-y := elf.o entry-common.o irq.o opcodes.o \

sys\_oneargs.o sys\_noargs.o\

process.o ptrace.o reboot.o return\_address.o \

setup.o signal.o sigreturn\_codes.o \

stacktrace.o sys\_arm.o time.o traps.o

8.

Unistd.h:

#define \_\_NR\_noargs (\_\_NR\_SYSCALL\_BASE+391)

#define \_\_NR\_oneargs (\_\_NR\_SYSCALL\_BASE+392)

Calls.s:

/\* 391 \*/ CALL(sys\_noargs)

CALL(sys\_oneargs)

9.

Linux raspberrypi 4.4.9-v7ThisisLeiquanPanSpeakingILoveRaspberrypi3 #1 SMP PREEMPT Wed Aug 30 12:45:44 CDT 2017 armv71 GNU/Linux

10.

./new\_call

syscall to getuid returned: 4294967295

Error: setuid failed! Reason: Function not implemented