**Operating systems hw1 report**

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Implementation details

Steps1 :

Open linux-2.6.32.60/arch/x86/kernel/syscall\_table\_32.S

Add .long sys\_show .long sys\_multiply .long sys\_min

Steps2:

Open linux-2/6/32/60/arh/x86/include/asm/unistd\_32.h

Add #define \_\_NR\_show 338 #define \_\_NR\_multiply 339 \_\_NR\_min 340 #define NR\_syscalls 341

Steps 3:

Open linux-2.6.32.60/arch/x86/include/asm/syscalls.h

Add asmlinkage long sys\_show(void) asmlinkage long sys\_multiply(long ,long) asmlinkage long sys\_min(long,long)

Steps 4:

cd linux-2.6.32.60/kernel/

create show.c multiply.c min.c

Steps 5:

Open Makefile

Add show.o multiply.o min.o

Rebuild kernel and reboot

Faced difficulties

常常每次debug都要rebulid，因此我們把指令一起寫成一個script可以比較有效率的rebuild，基本上出現過的bug都是打錯字造成rebuild error，並沒有遇到什麼很大的困難。