1) 새로운 system call 추가 :

int getjiffies(unsigned long \*p\_jiffies) : Linux kernel이 관리하는 jiffies 값을 전달

- Add System call number

```
#16 #UETITE _NR_MEMBUTITET (_NR_SYSCALL_BASE+309)

419 #define _NR_mlock2 (_NR_SYSCALL_BASE+300)

420 #define _NR_getjiffies (_NR_SYSCALL_BASE+301)

421

422 /*

arch/arm/include/uapi/asm/unistd.h

387,1

92%
```

- Register System call function

```
401 CALL(sys_membarrier)
402 CALL(sys_mlock2)
403 CALL(sys_getjiffies)
404
405 #ifndef syscalls_counted
406 .equ syscalls_padding, ((NR_syscalls + 3) & ~3) - NR_syscalls
407 #define syscalls_counted
arch/arm/kernel/calls.S
407,9
98%
```

- Register System call function

```
889
890 asmlinkage long sys_mlock2(unsigned long start, size_t len, int flags);
891
892 asmlinkage int sys_getjiffies(unsigned long *p_jiffies);
893
894 #endif
include/linux/syscalls.h
859,5-17 Bot
```

- System call code

- Makefile code

- Kernel compile

## 2) 1)을 테스트하기 위한 application program 작성

- System call library

- System call application

- Makefile

```
haseo@haseo-VirtualBox: ~/working/syscall

Indicates a second of the sec
```

- Transmit kernel image & system call application

- Execute system call application

```
Menu pi@raspberrypi: ~

File Edit Tabs Help

pi@raspberrypi: * ./syscall_app

[syscall_app] j: files = 4294941977

pi@raspberrypi: * $ dmesg | tail -n 5

37.049946] Bluetooth: HIDP socket layer initialized

37.057279] hid-generic 0005:05AC:024F.0002: unknown main item tag 0x0

AMAO/hcio/hcio:l1/0005:05AC:024F.0002/input/input1

37.050810] hid-generic 0005:05AC:024F.0002: input/hidrawl: BLUETOOTH HID v1.

1b Keyboard [Keychron K8] on b8:27:eb:df:91:61

46.844411] [sys getjiffies] jiffies = 4294941977

pi@raspberrypi: * $
```