## CS3204 Operating Systems - Fall 2000 Instructor: Dr. Craig A. Struble Virtual Memory Management in Linux: Corrections 1

Assigned: Monday, Nov. 6 Due: 11:59.59 p.m., Thursday, Nov. 16

## 1 Corrections

There are three corrections to the project specification. First, the system call provided in the spec does not work as advertised because double parameters are too big to be passed to system calls. The following system call should work fine.

```
asmlinkage int sys_my_call(int x, short y) {
    return (int)(x + y);
}
The usage of _syscall2(...) changes to
_syscall2(int, my_call, int, x, short, y);
for the modified system call.
```

Second, the file for kill\_proc\_info(...) is /usr/src/linux/kernel/signal.c not /usr/src/linux/kernel/sys.c.

Finally, the important structure in /usr/src/linux/include/linux/kernel\_stat.h is kernel\_stat not kernel\_struct. In order to access the kernel statistics, you need to use the appropriate, extern, (global) variable declared in the same header file.

## 2 Boot Disks

Making appropriate boot disks for RedHat 6.2 to use your modified kernel is easy. Compile and install your kernel as described in the specification. Do NOT execute make bzdisk or make modifications to LILO however. Instead, after you have installed your modified kernel using the provided kerninst script, execute the command

```
/sbin/mkbootdisk 2.2.14-os
```

This will create a bootdisk that will boot the kernel /boot/vmlinuz-2.2.14-os, which should exist if you followed the instructions in the specification.