# COMP3500: Project 4 Part 4 - Managing Process State (cont.)

**Exercise 1:** What is PID information or pidinfo?

**Exercise 2:** What are global variables for PID management??

**Exercise 3:** Data Structure Question 3: Why we need a lock for PID management?

**Exercise 4:** What is the data structure for all pidinfo variables??

**Exercise 5:** What should be deleted in the thread\_exit() function?

thread\_exit(int exitcode) {

Set the exitstatus of curthread to exitcode;

Call as\_destroy() to remove address space;

Decrease cwd reference;

/\* What should be deleted below? \*/

Destroy curthread’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

}

**Exercise 6:** How to deal with an error in sys\_fork()?

int sys\_fork(struct trapframe \*tf, pid\_t \*retval) {

Create a new trap\_frame called new\_tf;

Copy tf to new\_tf;

/\* Call thread\_fork( ) \*/

result = thread\_fork(curthread->t\_name, ntf, 0,

child\_thread, retval);)

if (result != 0) { /\* failed in thread\_fork \*/

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

return result;

}

return 0;

}

**Exercise 7 (Wheeldecide):** What are the two items to be copied from curthread to newguy in the thread\_fork() function?