**UNX511/DPS912: Unix Systems Programming**

Quiz 9

1. Compare threads to processes. [3 marks]
   1. Which is faster, thread creation or process creation?
   2. Is it easier to share data between threads or share data between processes?
   3. Which as access to more memory space, threads or processes?
2. Describe two of the arguments to the pthead\_create function: [2 marks]

***int pthread\_create(pthread\_t \*thread, const pthread\_attr\_t \*attr,void \*(\*start)(void \*), void \*arg);***

1. What does pthread\_join() do? [1 mark]
2. What does pthread\_exit() do? [1 mark]
3. What does pthread\_self() do? [1 mark]
4. One of the principal advantages of threads is that they can share information via global variables. However, this easy sharing comes at a cost: we must take care that multiple threads do not attempt to modify the same variable at the same time, or that one thread does not try to read the value of a variable while another thread is modifying it. What mechanism do we use to guarantee that only one thread has access to a variable at a time? Choose one: [2 marks]
   1. Mutexes
   2. Polling
   3. Monitoring
   4. Dread-locking