CS490 Windows Internals

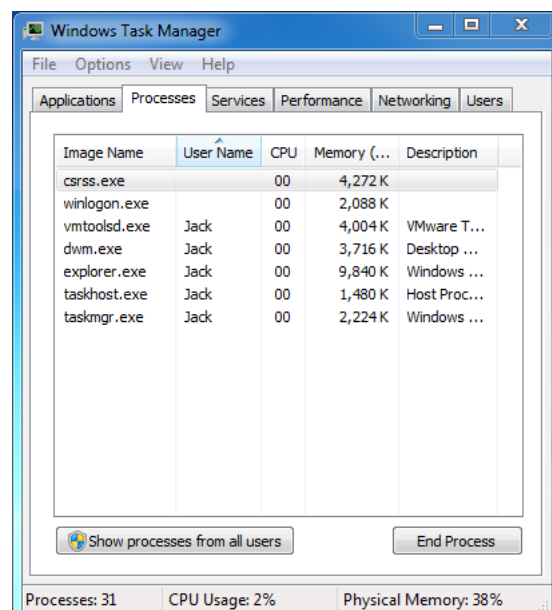# Project 1: Simple Process Manager

Due: Sunday, Oct 20, 2013

Requirements:

Windows provides a simple & useful task manager (taskmgr.exe) for users to manage processes. In order to get you familiar with Windows programming & Windows API. You are required to implement a simple version of task manager with a subset of features in the process tab of taskmgr.exe. The key feature is as below:

1. A graphical user interface
2. List all processes with at least the following information: image name, username, cpu, description)
3. Kill a process
4. New Task (Run…)
5. Bonus I: allow user to list all processes or just that user's process.
6. Bonus II: give proper alert when user try to end system process.

Please refer to taskmgr.exe of Windows for detailed functionality and usage.

Submission:

1. Source code
2. Compiled program (The test environment is Windows 7 or Windows 2008 R2. Please make sure your program can work well on either of the platform.)
3. Document that reports you implementation, especially the Windows API you used.
4. Zip all the material above and upload to ftp://jack_sunwei:public@public.sjtu.edu.cn/upload before due day. The format of filename should be *<name>+<student id>+project1.zip*. If you have to upload more than 1 version, please make sure I can tell which one is final one through filename.