Developing Programs on Your PC

Fall 2017

COMPSCI 459 - Fundamentals of Computer Graphics

Taken from Dr. Suzuki's lecture notes

This information is provided as a benefit to those who might be interested in developing OpenGL programs on their own Windows PC. There are two things you will need to get going.

- 1. Microsoft VS2008 or VS2010. VS2008 is available to UWM students under a license from Microsoft. Ask the TA for a CD.
- 2. OpenGL and GLUT libraries, available from the TA by email. Install them as follows. For VS2008:
 - Create directory C:\ProgramFiles\MicrosoftVisualStudio9.0\VC\include\GL and save GL.h, GLAUX.h, GLU.h and GLUT.h there.
 - Save GLAUX.LIB, GLU32.LIB, GLUT.LIB, GLUT32.LIB and OPENGL32.LIB in C:\ProgramFiles\MicrosoftVisualStudio9.0\VC\lib.
 - Save glaux.dll, glut.dll and glut32.dll in C:\WINDOWS\system32(orC:\WINDOWS\sysWOW64). (Two other .dll files you need, glu32.dll and opengl32.dll, should already be in C:\WINDOWS\system32.)

For VS2010:

- Create directory C:\ProgramFiles[(x86)]\MicrosoftVisualStudio10.0\VC\include\ GL and save GL.h, GLAUX.h, GLU.h and GLUT.h there.
- Save GLAUX.LIB, GLU32.LIB, GLUT.LIB, GLUT32.LIB and OPENGL32.LIB in: C:\ProgramFiles[(x86)]\MicrosoftVisualStudio10.0\VC\lib
- Save glaux.dll, glut.dll and glut32.dll in C:\WINDOWS\system32 (or C:\WINDOWS\sysWOW64). (Two other .dll files you need, glu32.dll and opengl32.dll, should already be in C:\WINDOWS\system32.)

If your PC uses Unix or Linux, you should download and install MESA (equivalent to OpenGL) from http://www.mesa3d.org/, and Freeglut from http://freeglut.sourceforge.net/. To compile and run C or C++ programs, you should indicate paths to .h and .lib files by: gcc main.c o <excutable> -I<opengl-include-path> -L<opengl-lib-path> -lgl lglu lglut