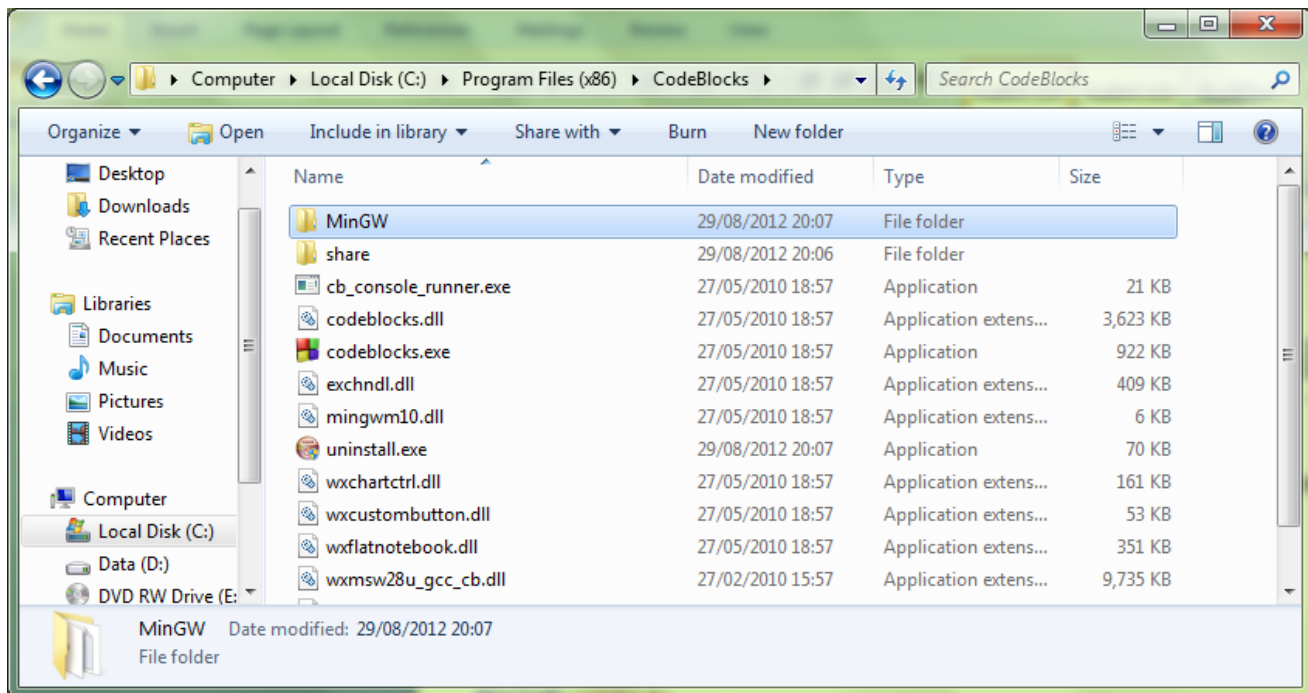


Enabling use of OpenMP with Visual Studio

Update MinGW if using Windows

The “streamlined” version of MinGW that is included with Code::Blocks needs to be changed to one that has the OpenMP Libraries.

Find the MinGW folder, this will be in Code::Block’s Program Files.

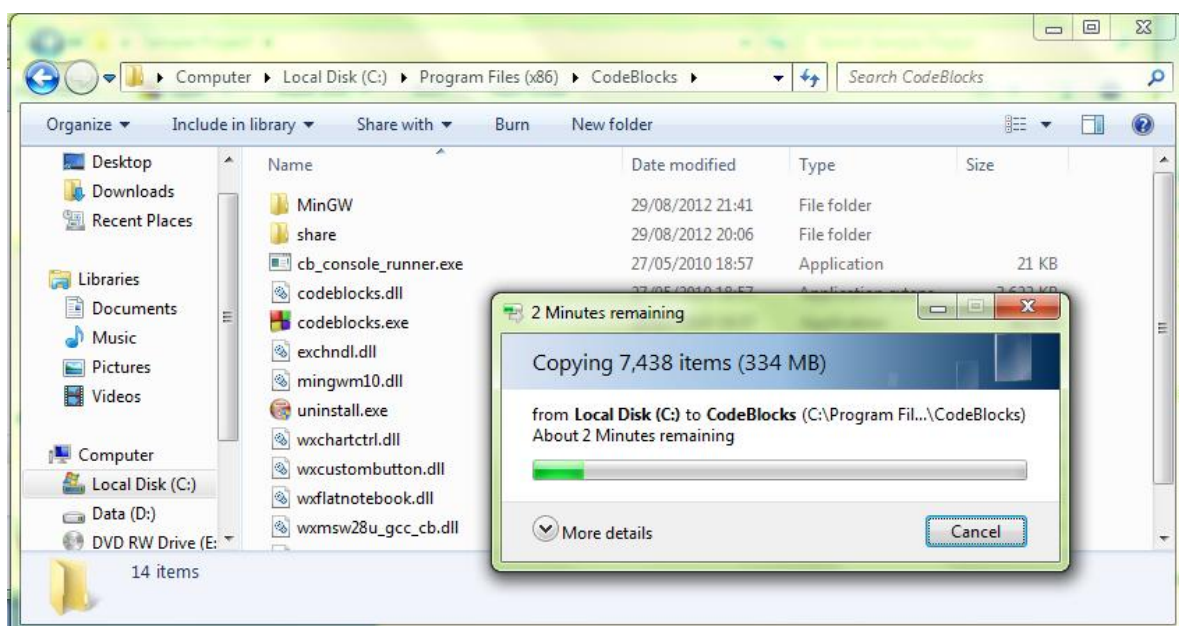


Delete the “MinGW” folder.

Download MinGW from <http://www.mingw.org/>

Install it (Make sure you include the C++ option) and remember the location chosen for the binaries, in my case C:\MinGW\

Copy C:\MinGW\ to replace the folder you previously deleted in C:\Program Files(x86)\CodeBlocks\



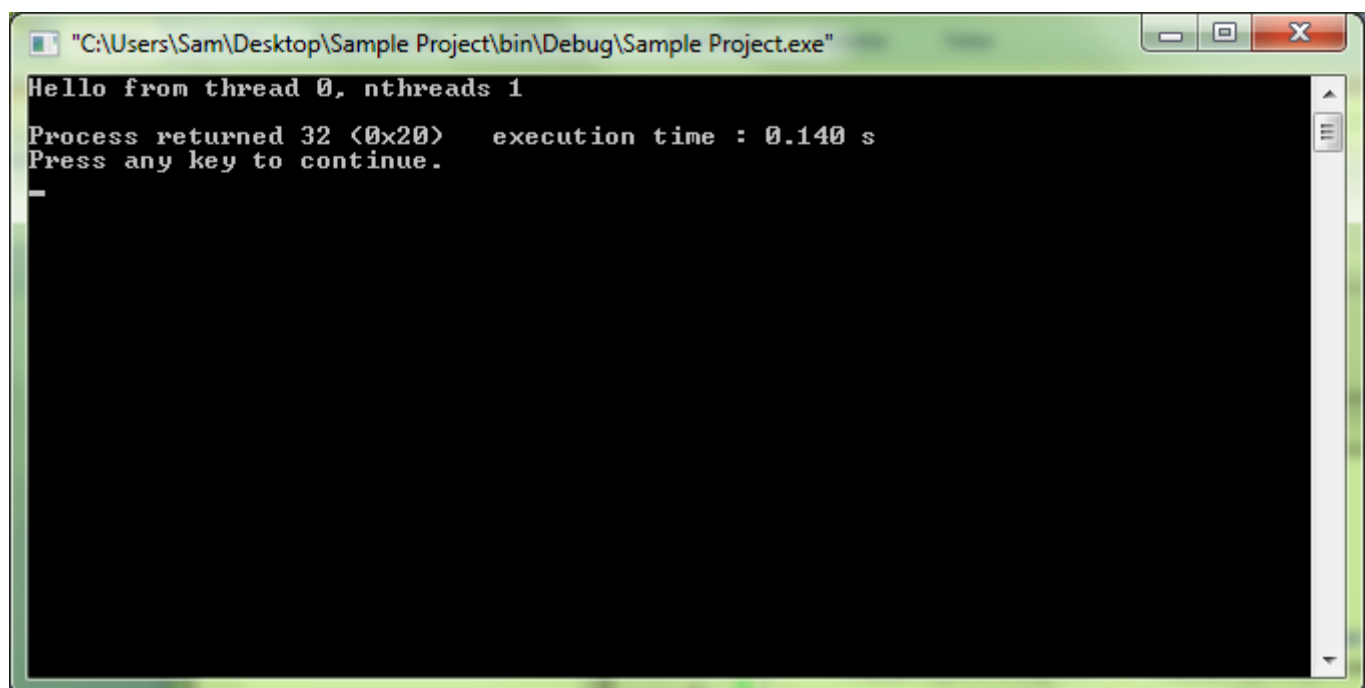
Setting up your Project

Create a new project containing the code:

```
#include <omp.h>
#include <stdio.h>

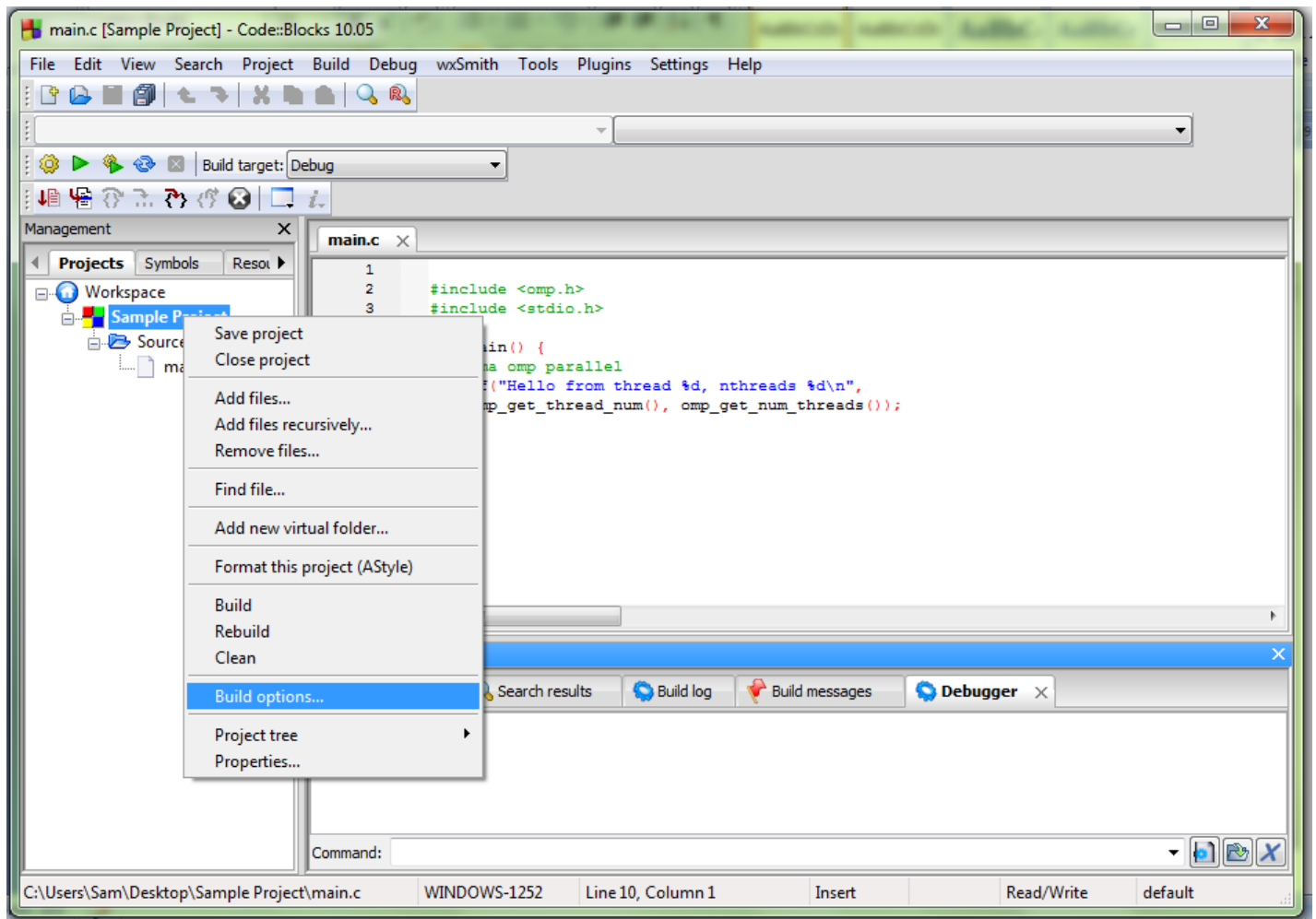
int main() {
#pragma omp parallel
printf("Hello from thread %d, nthreads %d\n",
      omp_get_thread_num(), omp_get_num_threads());
}
```

Building and running this should give:

A screenshot of a Windows command prompt window. The title bar at the top reads "C:\Users\Sam\Desktop\Sample Project\bin\Debug\Sample Project.exe". The window has standard Windows window controls (minimize, maximize, close) on the right. The command prompt area is black with white text. The output displayed is: "Hello from thread 0, nthreads 1", followed by "Process returned 32 (0x20) execution time : 0.140 s", and "Press any key to continue.". A single underscore character is visible on the line following the prompt message. A vertical scrollbar is on the right side of the command prompt area.

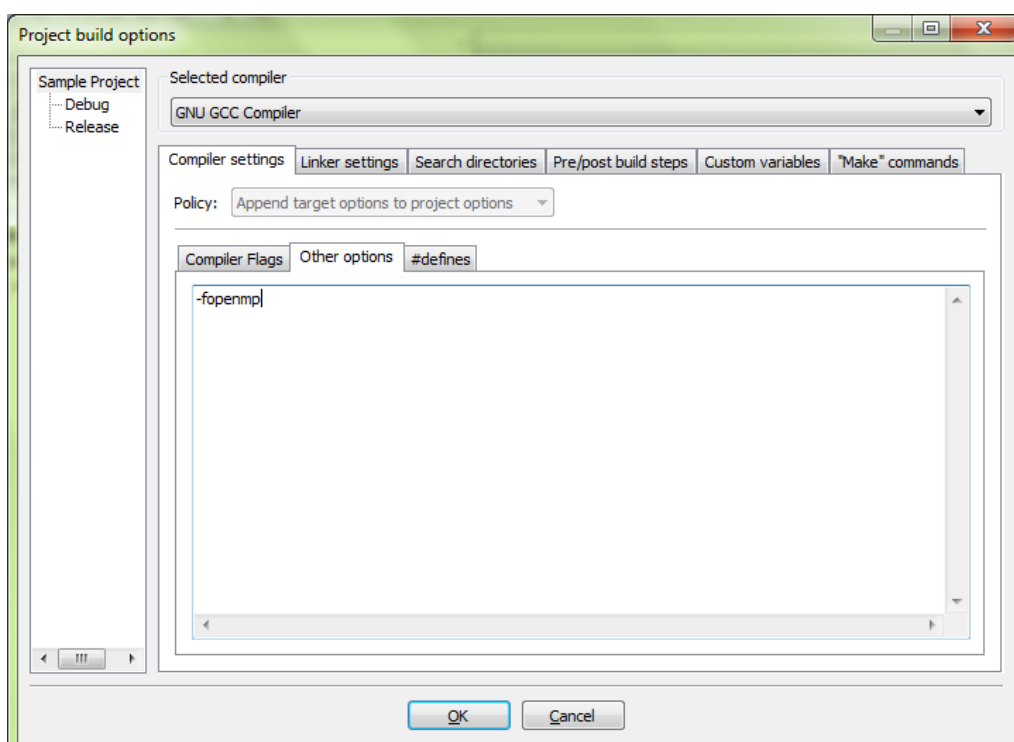
```
"C:\Users\Sam\Desktop\Sample Project\bin\Debug\Sample Project.exe"
Hello from thread 0, nthreads 1
Process returned 32 (0x20) execution time : 0.140 s
Press any key to continue.
_
```

Right click on the current Project and select “Build Options...”:



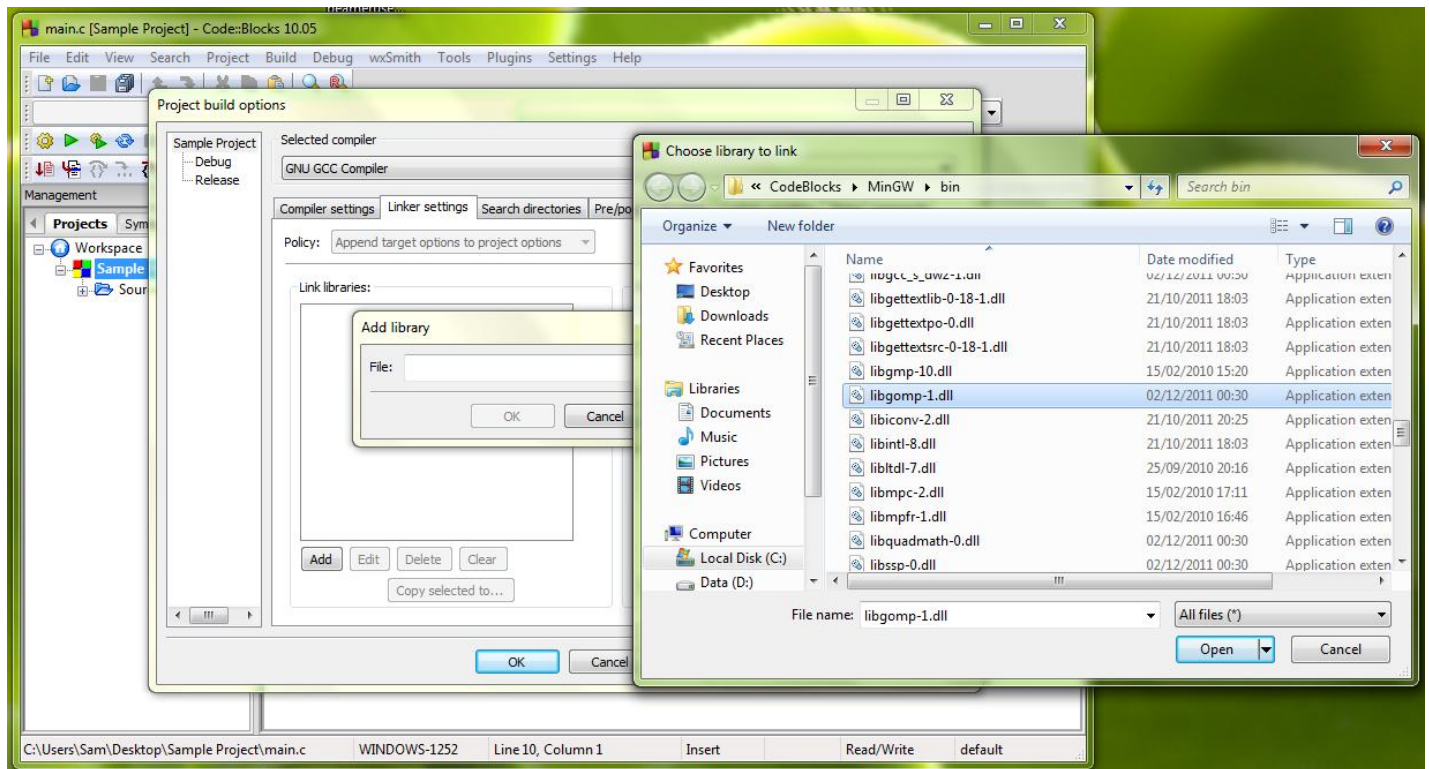
Select the Current Project on the left hand side of the dialog, and then the GNU GCC compiler, Compiler settings, Other Options tabs respectively.

Add “-fopenmp” to the text area and click OK.



Open the “Linker” Tab and goto “Add” a library, browse to find it and change the view to show “All Files (*.*)”

Select the "C:\Program Files (x86)\CodeBlocks\MinGW\bin\libgomp-1.dll" Library (your path may vary).



Now re-build and run the project and – assuming you have a multi-processor machine – the output should be different.

