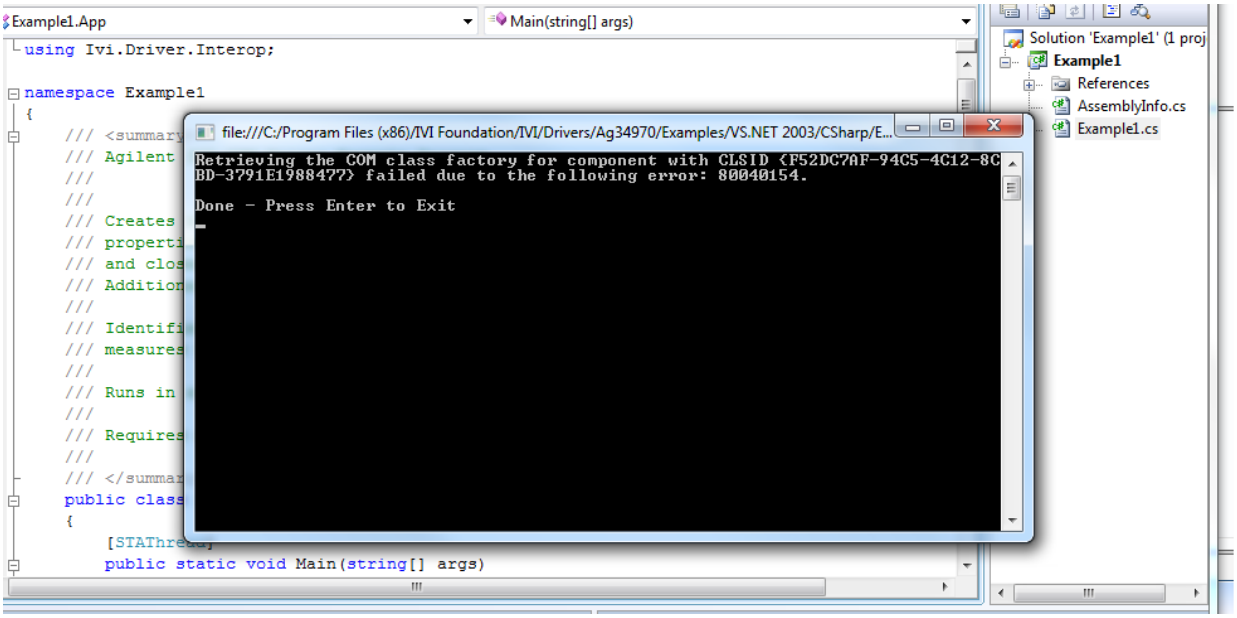
Fixing Broken Programming Examples on 64-bit Systems

Problem

IVI driver examples for drivers that have not yet been converted to 64-bit operation will not re-compile and run correctly. This problem would also exist for many of our additional IVI driver programming examples that are posted on the Web with our instruments.

The problem is that initially these programs were developed on 32-bit systems, and the default build configuration setting was “ANY CPU”.

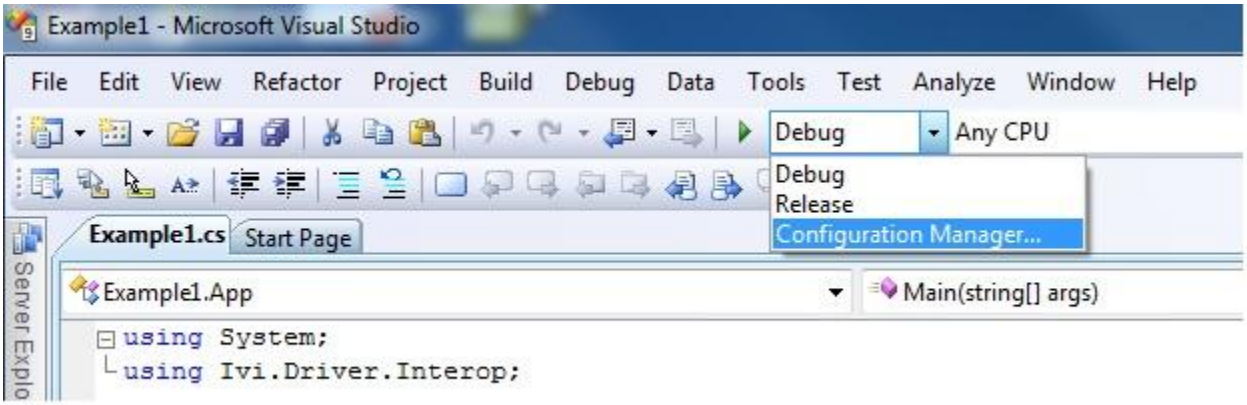
The symptom is that when you build the example project and try to run it in the debugger, you get an error when you try to run the program. With a .NET language, which uses IVI-COM, you get an error that looks something like the following picture (for an application that runs to the Console):



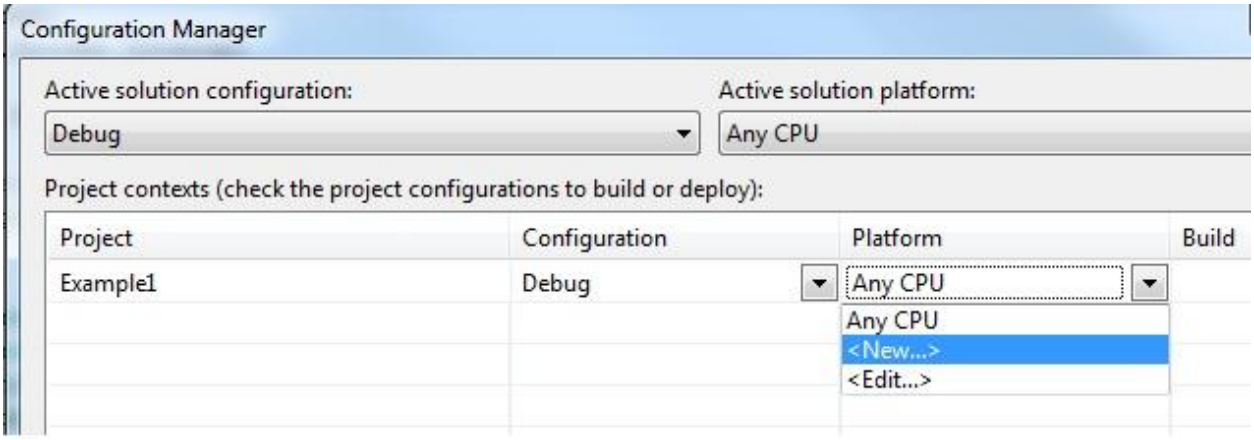
Solution

To fix the problem, the project’s configuration settings need to be changed as follows:

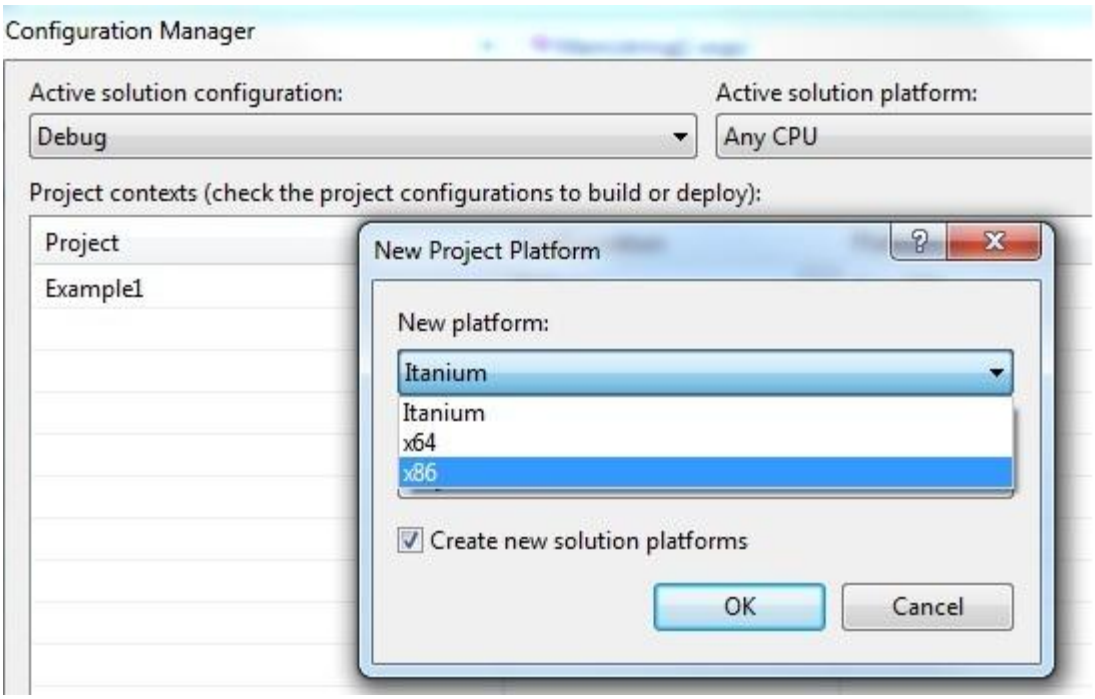
1. Start Visual Studio 2005 or 2008
2. Load the project containing the program you wish to fix. NOTE: The Wizard will need to run and convert older Visual Studio projects to the newer 2005 or 2008 project.
3. After the upgrade conversion, open the project using Visual Studio (2005 or 2008).
4. Go to the “Debug” window up near the menu and select “Configuration Manager” as shown below:



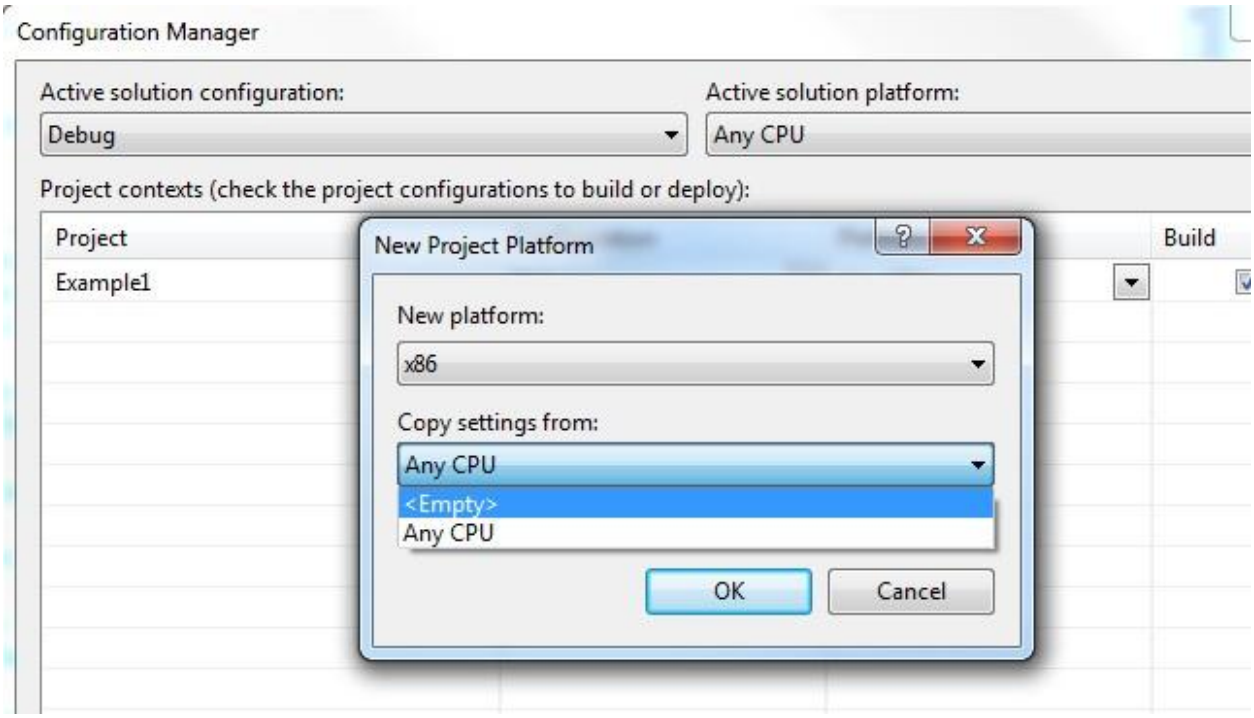
5. In the Configuration Manager dialog that comes up, click on the drop-down menu under Platform/Any CPU as shown below, and choose the “New” choice:



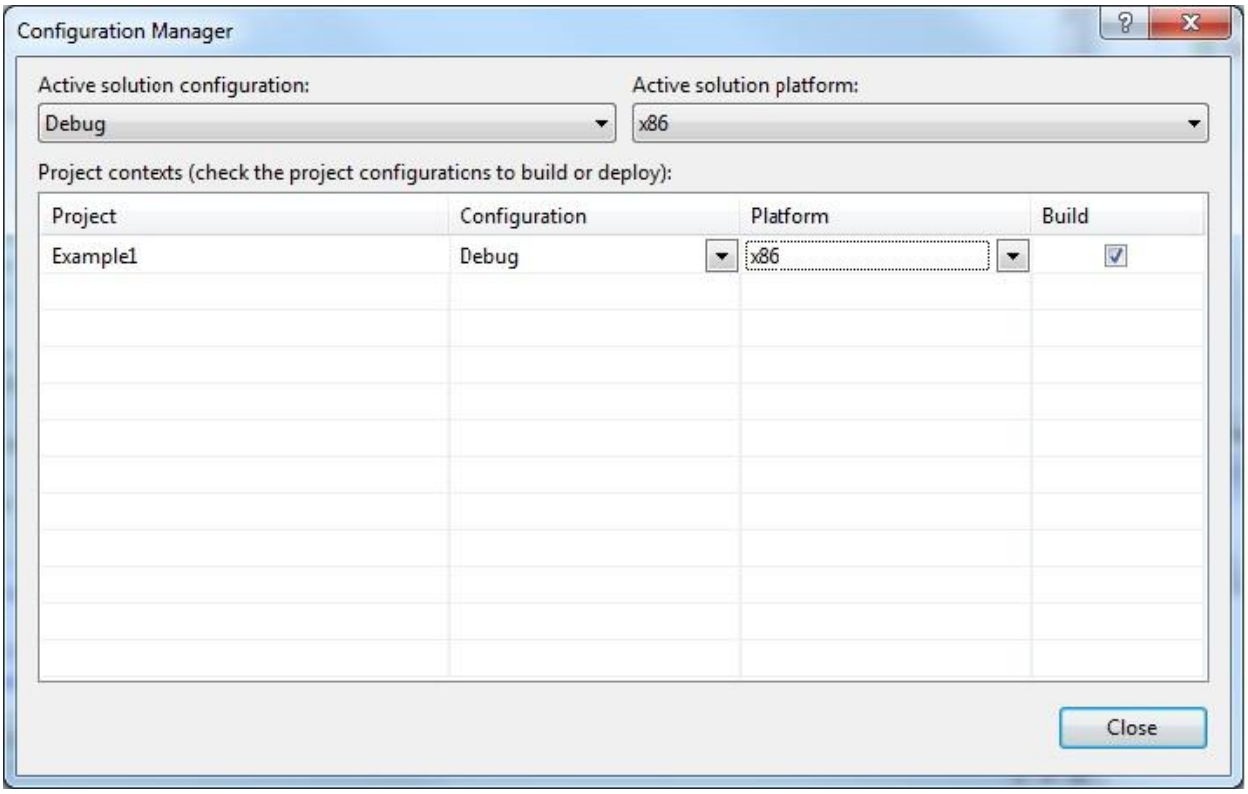
6. A new dialog (New Project Platform) will appear. Click to get the drop down menu for the top field (labeled “New platform:” in the dialog (this was labeled “Itanium” on my system), and select the “x86” choice as shown below. DO NOT click on the OK button yet.



7. Now chose the drop down for the second field, labeled “Copy settings from:” and selec the choice “<Empty>” .



8. Then click on the “OK” button to close the dialog. The Configuration Settings dialog should then look like the picture below.



9. Click on the “Close” button. Make sure your new setting of “x86” is selected, and then rebuild your project. The example will now run without error. NOTE: Be sure to save your settings before exiting Visual Studio.